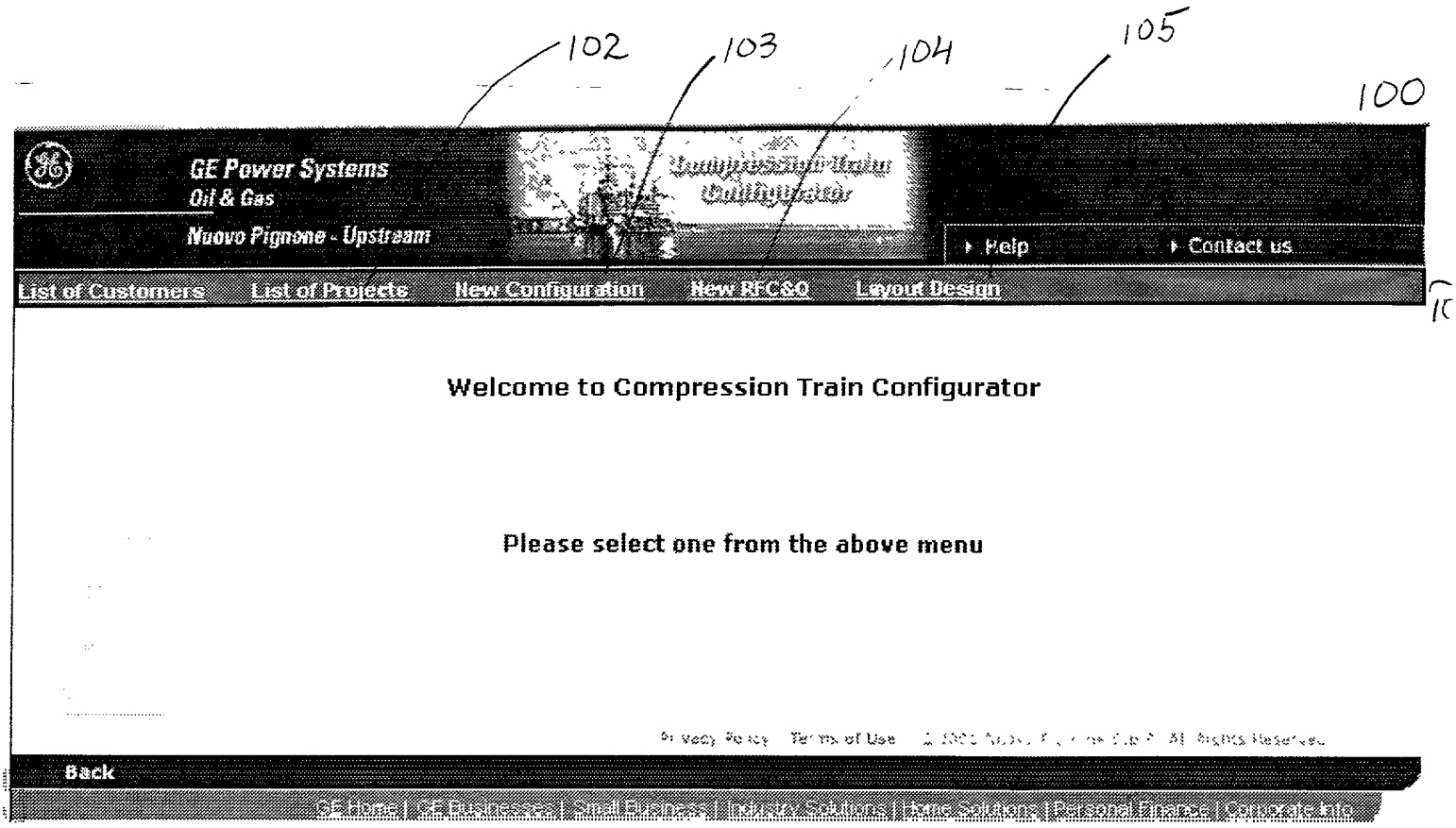

102
103
104
105
100
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
List of Customers
List of Projects
New Configuration
New RFCSO
Layout Design
Welcome to Compression Train Configurator
Please select one from the above menu
Back

fig1

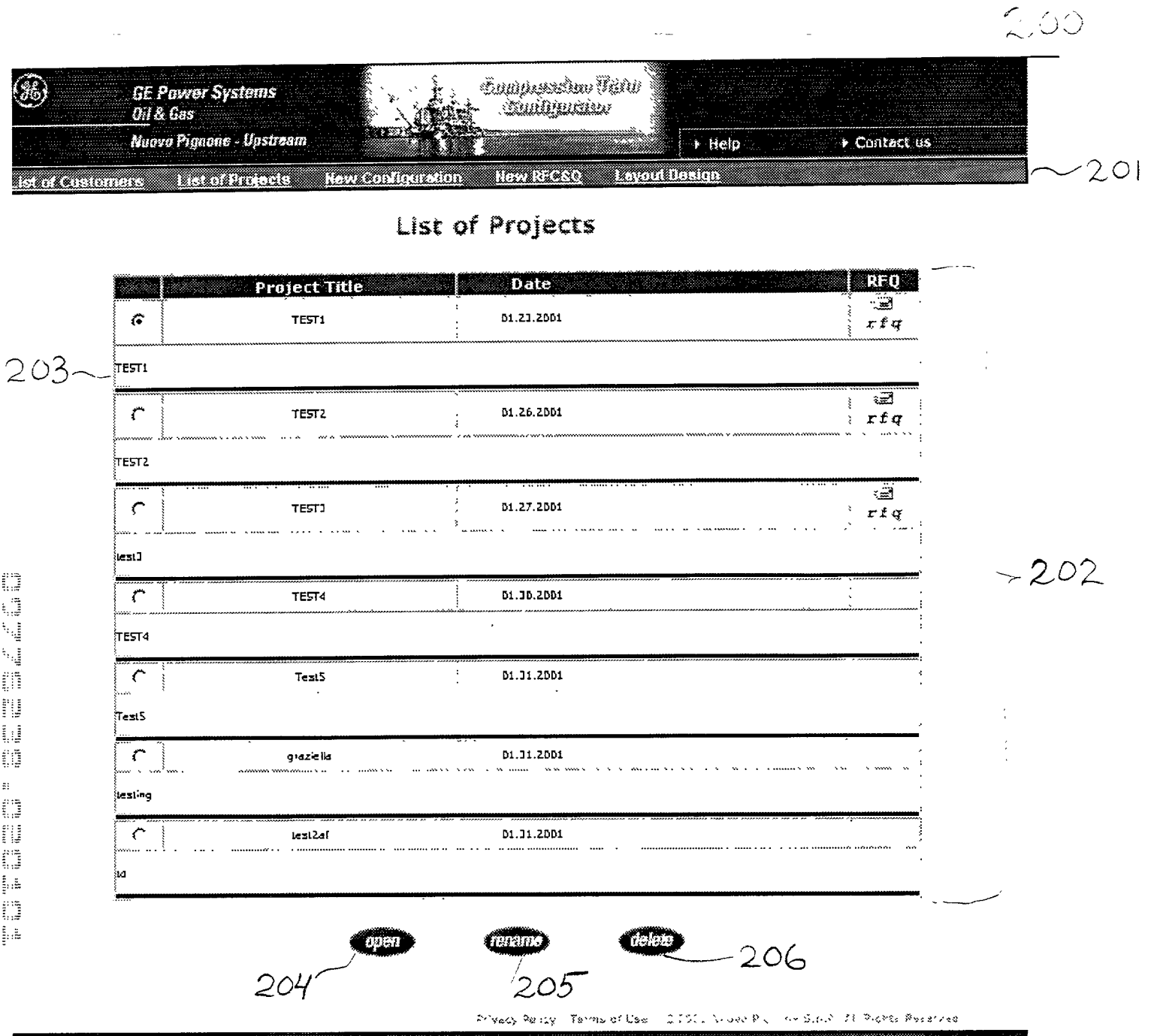

200
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Compression Train Configuration
Help
Contact us
List of Customers
List of Projects
New Configuration
New RFQ
Layout Design
201
List of Projects
Project Title
Date
RFQ
TEST1
01.21.2001
rfq
203
TEST1
TEST2
01.26.2001
rfq
TEST2
TEST3
01.27.2001
rfq
test3
202
TEST4
01.30.2001
TEST4
Test5
01.31.2001
Test5
graziella
01.31.2001
testing
test2af
01.31.2001
id
open
rename
delete
204
205
206
Privacy Policy
Terms of Use
All Rights Reserved
Back
GE Home | GE Businesses | Small Businesses | Industry Solutions | Home Solutions | Personal Finance | Corporate Info

fig2

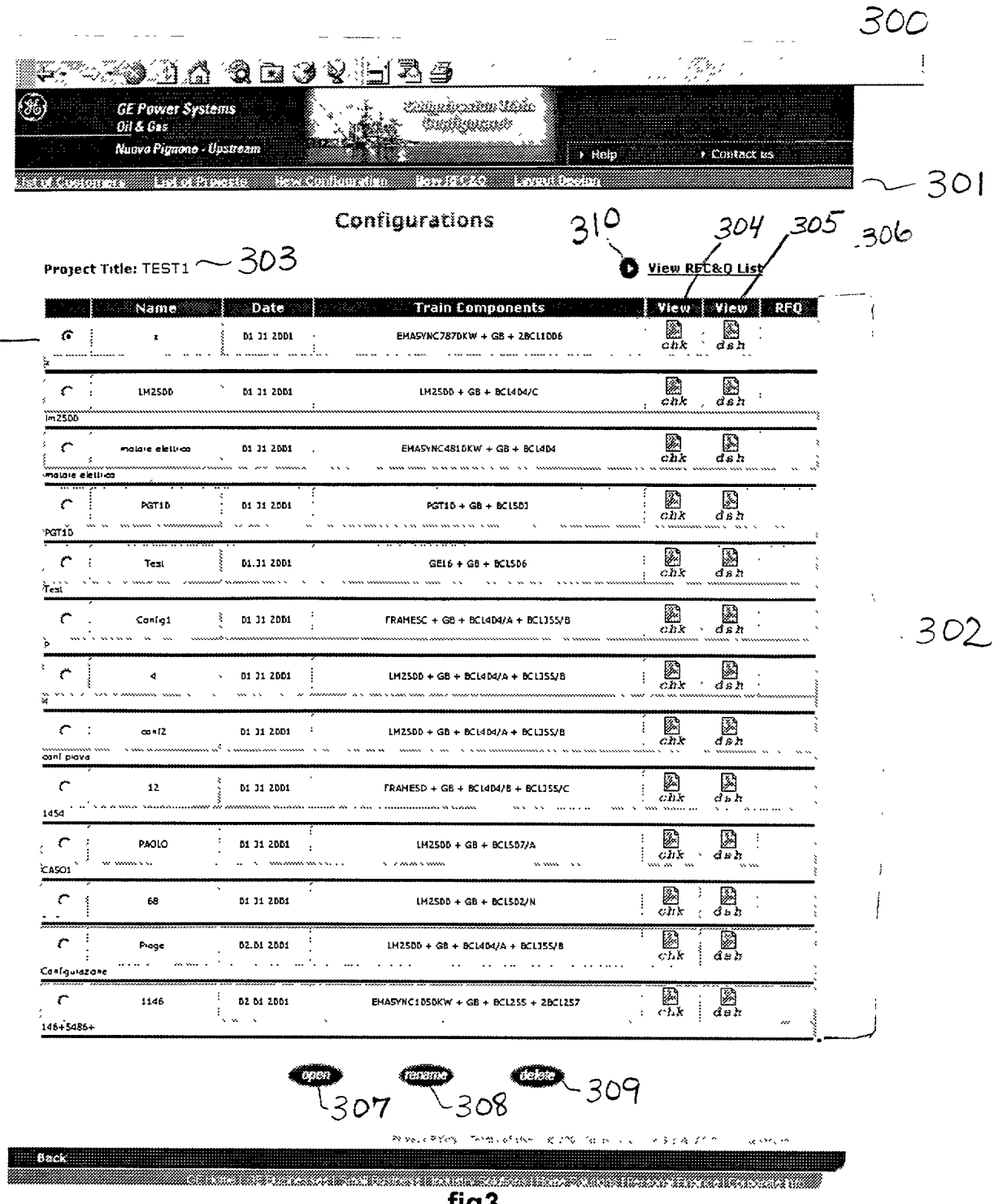

300
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
301
Configurations
310
304
305
306
Project Title: TEST1
303
View RFC&Q List
Name
Date
Train Components
View
View
RFQ
304
x
01 31 2001
EMA5VNC787DKW + GB + 2BCL1DD6
LM2500
01 31 2001
LM2500 + GB + BCL4D4/C
malaie elettrica
01 31 2001
EMA5VNC4810KW + GB + BCL4D4
PGT10
01 31 2001
PGT10 + GB + BCL5D1
Test
01.31 2001
GE16 + GB + BCL5D6
Config1
01 31 2001
FRAMESC + GB + BCL4D4/A + BCL355/B
302
4
01 31 2001
LM2500 + GB + BCL4D4/A + BCL355/B
conf2
01 31 2001
LM2500 + GB + BCL4D4/A + BCL355/B
conf piava
12
01 31 2001
FRAMESD + GB + BCL4D4/B + BCL355/C
1454
PAOLO
01 31 2001
LM2500 + GB + BCL507/A
CASO1
68
01 31 2001
LM2500 + GB + BCL502/N
Prage
02.01 2001
LM2500 + GB + BCL4D4/A + BCL355/B
Configurazone
1146
02 01 2001
EMA5VNC1050KW + GB + BCL255 + 2BCL257
146+5486+
open
307
rename
308
delete
309
Back

fig3

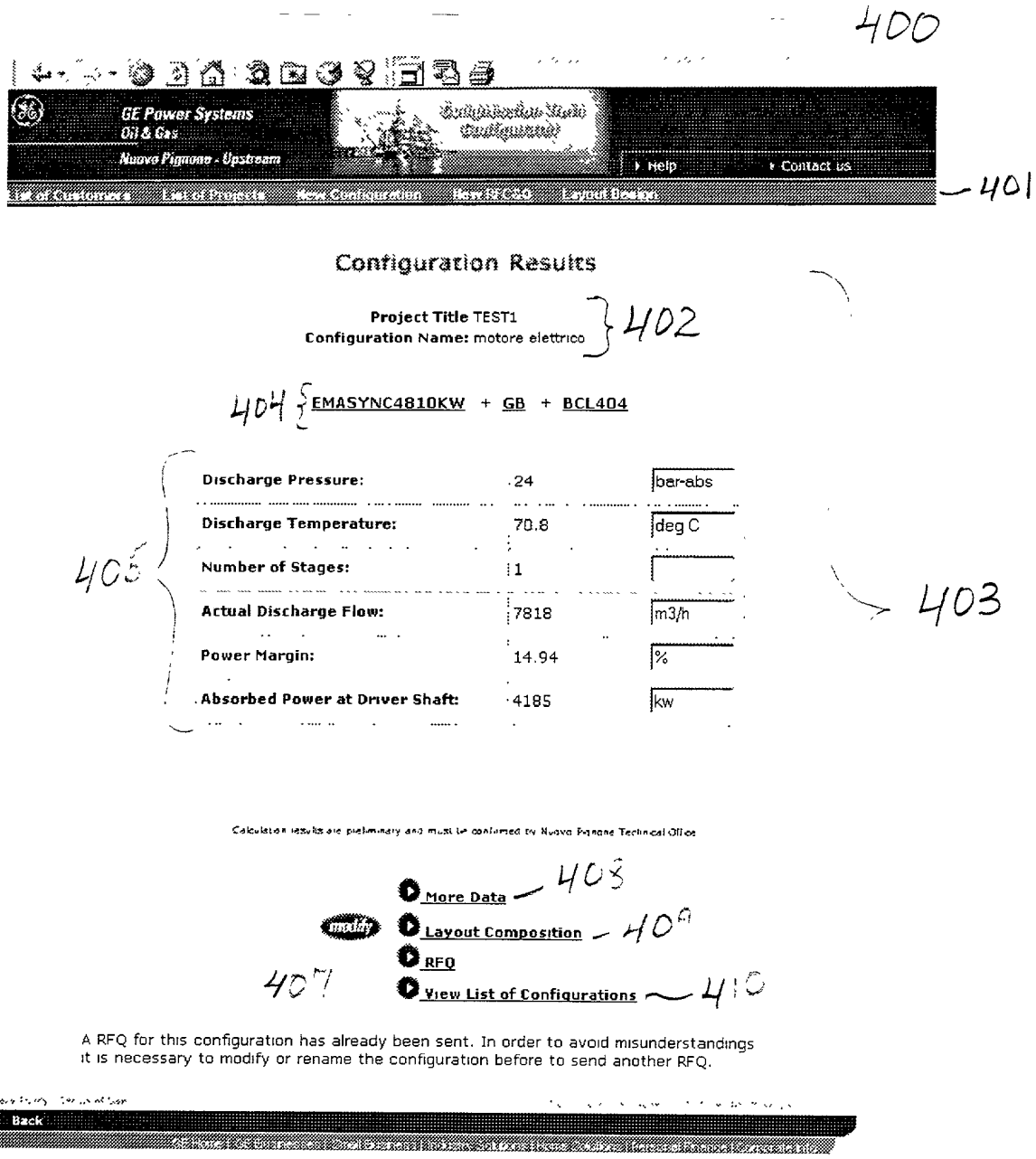

400
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
401
Configuration Results
Project Title TEST1
Configuration Name: motore elettrico
402
404
EMASYNC4810KW + GB + BCL404
Discharge Pressure: 24 bar-abs
Discharge Temperature: 70.8 deg C
Number of Stages: 1
Actual Discharge Flow: 7818 m3/h
Power Margin: 14.94 %
Absorbed Power at Driver Shaft: 4185 kw
405
403
Calculation results are preliminary and must be confirmed by Nuovo Pignone Technical Office
More Data
408
Layout Composition
409
RFQ
407
View List of Configurations
410
A RFQ for this configuration has already been sent. In order to avoid misunderstandings it is necessary to modify or rename the configuration before to send another RFQ.
Back

fig4

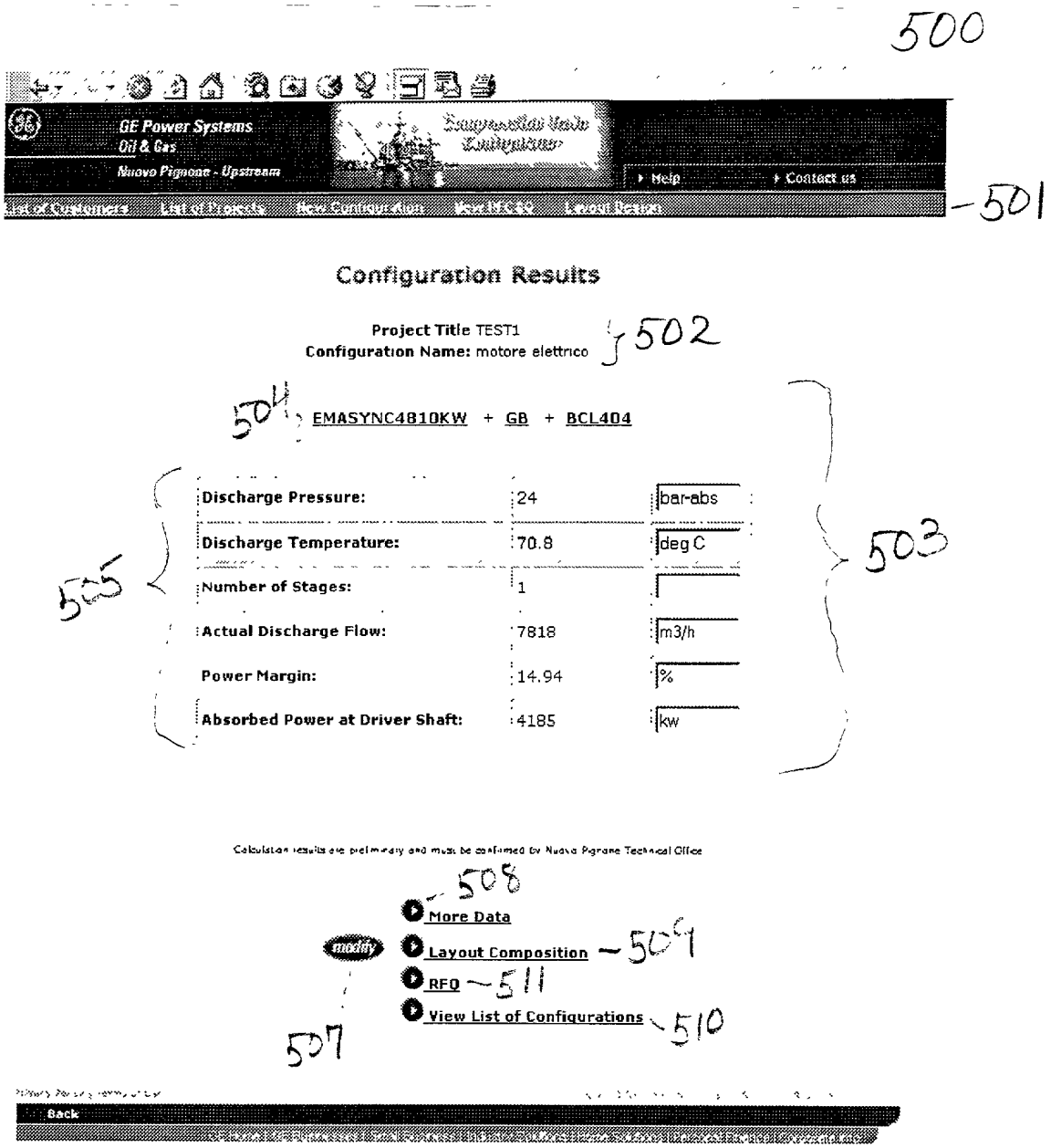

500
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
501
Configuration Results
Project Title TEST1
Configuration Name: motore elettrico
502
504
EMASYNC4810KW + GB + BCL404
Discharge Pressure: 24 bar-abs
Discharge Temperature: 70.8 deg C
Number of Stages: 1
Actual Discharge Flow: 7818 m3/h
Power Margin: 14.94 %
Absorbed Power at Driver Shaft: 4185 kw
505
503
Calculation results are preliminary and must be confirmed by Nuovo Pignone Technical Office
508
More Data
modify
Layout Composition
509
RFQ
511
View List of Configurations
510
507
Back

fig5

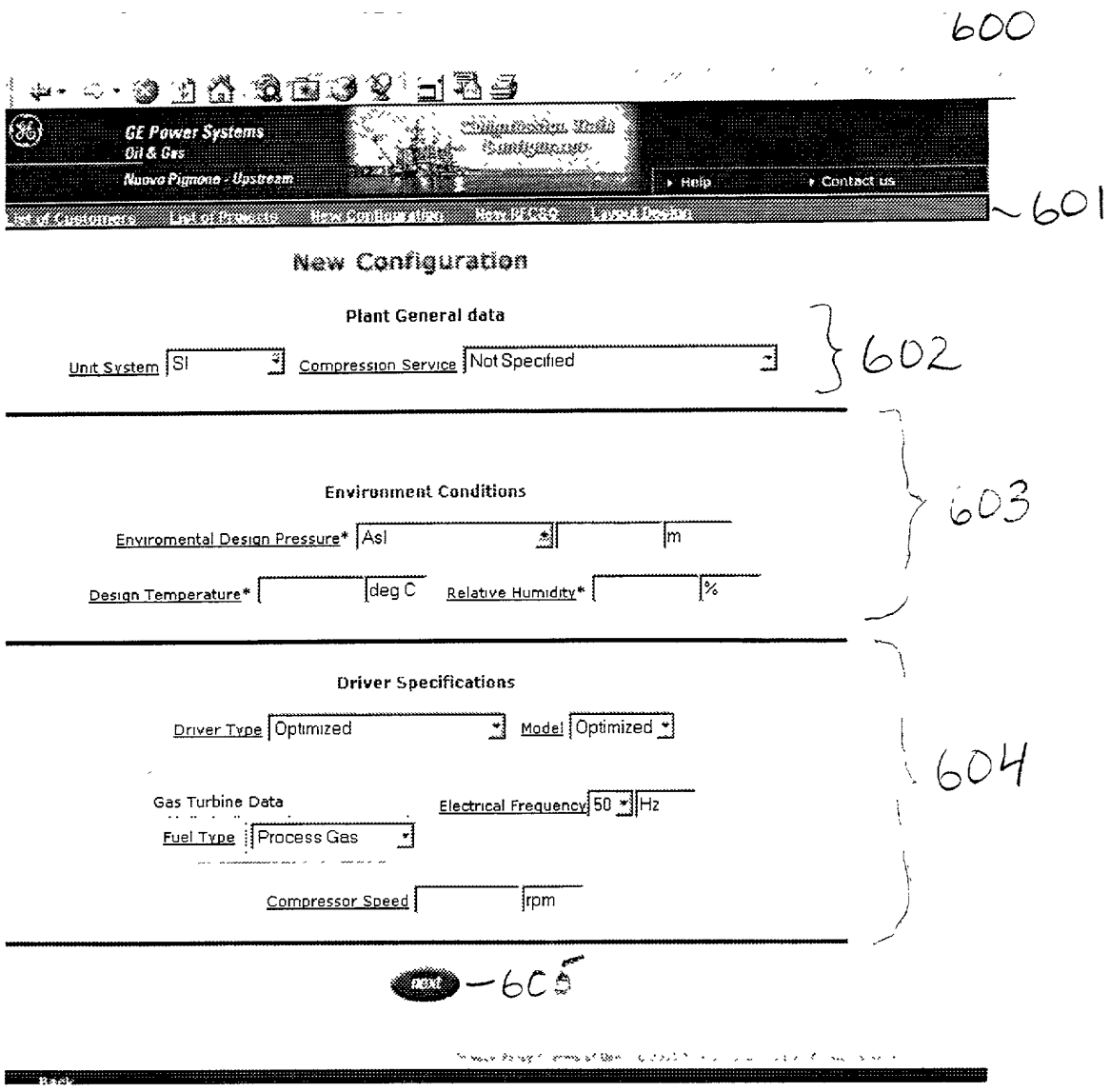

600
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
601
New Configuration
Plant General data
Unit System
SI
Compression Service
Not Specified
602
Environment Conditions
Enviromental Design Pressure*
Asl
m
603
Design Temperature*
deg C
Relative Humidity*
%
Driver Specifications
Driver Type
Optimized
Model
Optimized
604
Gas Turbine Data
Electrical Frequency
50
Hz
Fuel Type
Process Gas
Compressor Speed
rpm
NEXT
605

fig6

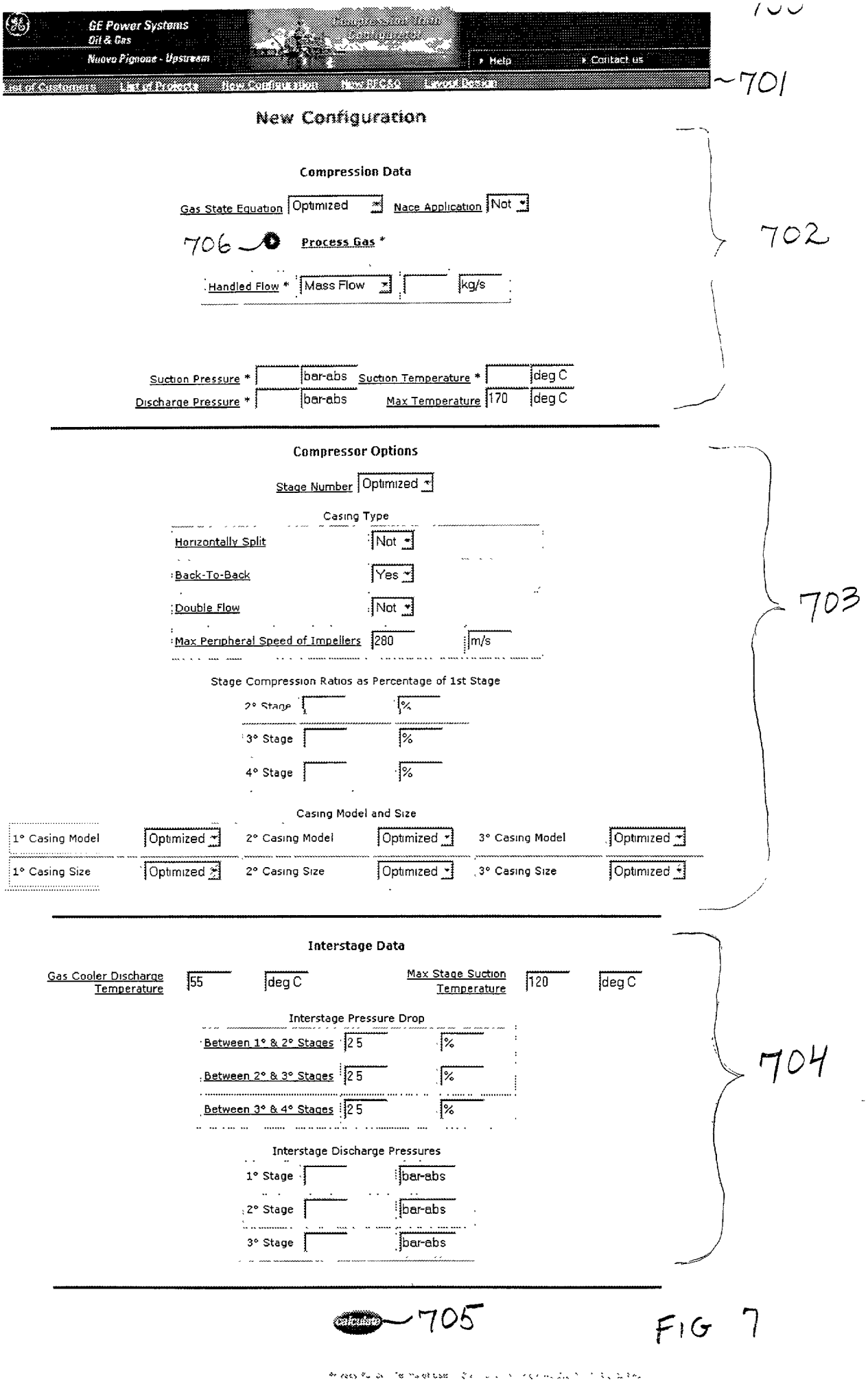

GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
New Configuration
Compression Data
Gas State Equation
Optimized
Nace Application
Not
Process Gas *
Handled Flow *
Mass Flow
kg/s
Suction Pressure *
bar-abs
Suction Temperature *
deg C
Discharge Pressure *
bar-abs
Max Temperature
170
deg C
Compressor Options
Stage Number
Optimized
Casing Type
Horizontally Split
Not
Back-To-Back
Yes
Double Flow
Not
Max Peripheral Speed of Impellers
280
m/s
Stage Compression Ratios as Percentage of 1st Stage
2° Stage
3° Stage
4° Stage
%
Casing Model and Size
1° Casing Model
Optimized
2° Casing Model
3° Casing Model
1° Casing Size
2° Casing Size
3° Casing Size
Interstage Data
Gas Cooler Discharge Temperature
55
deg C
Max Stage Suction Temperature
120
Interstage Pressure Drop
Between 1° & 2° Stages
25
Between 2° & 3° Stages
Between 3° & 4° Stages
Interstage Discharge Pressures
1° Stage
2° Stage
3° Stage
bar-abs
Calculate
701
702
703
704
705
706

FIG 7

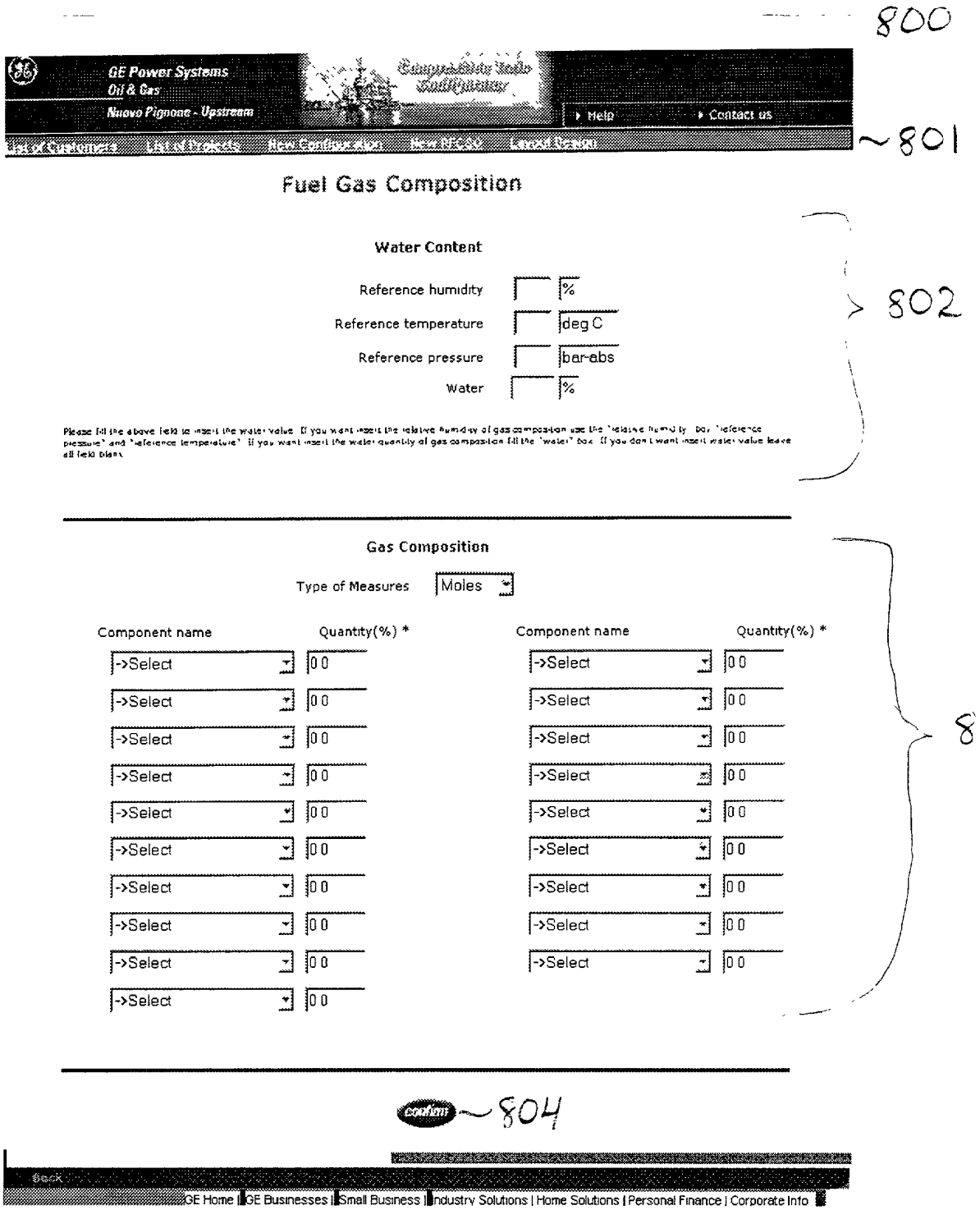

800
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
~801
Fuel Gas Composition
Water Content
Reference humidity
%
Reference temperature
deg C
Reference pressure
bar-abs
Water
%
802
Gas Composition
Type of Measures
Moles
Component name
Quantity(%) *
->Select
0 0
803
confirm
~804
GE Home | GE Businesses | Small Business | Industry Solutions | Home Solutions | Personal Finance | Corporate Info

fig8

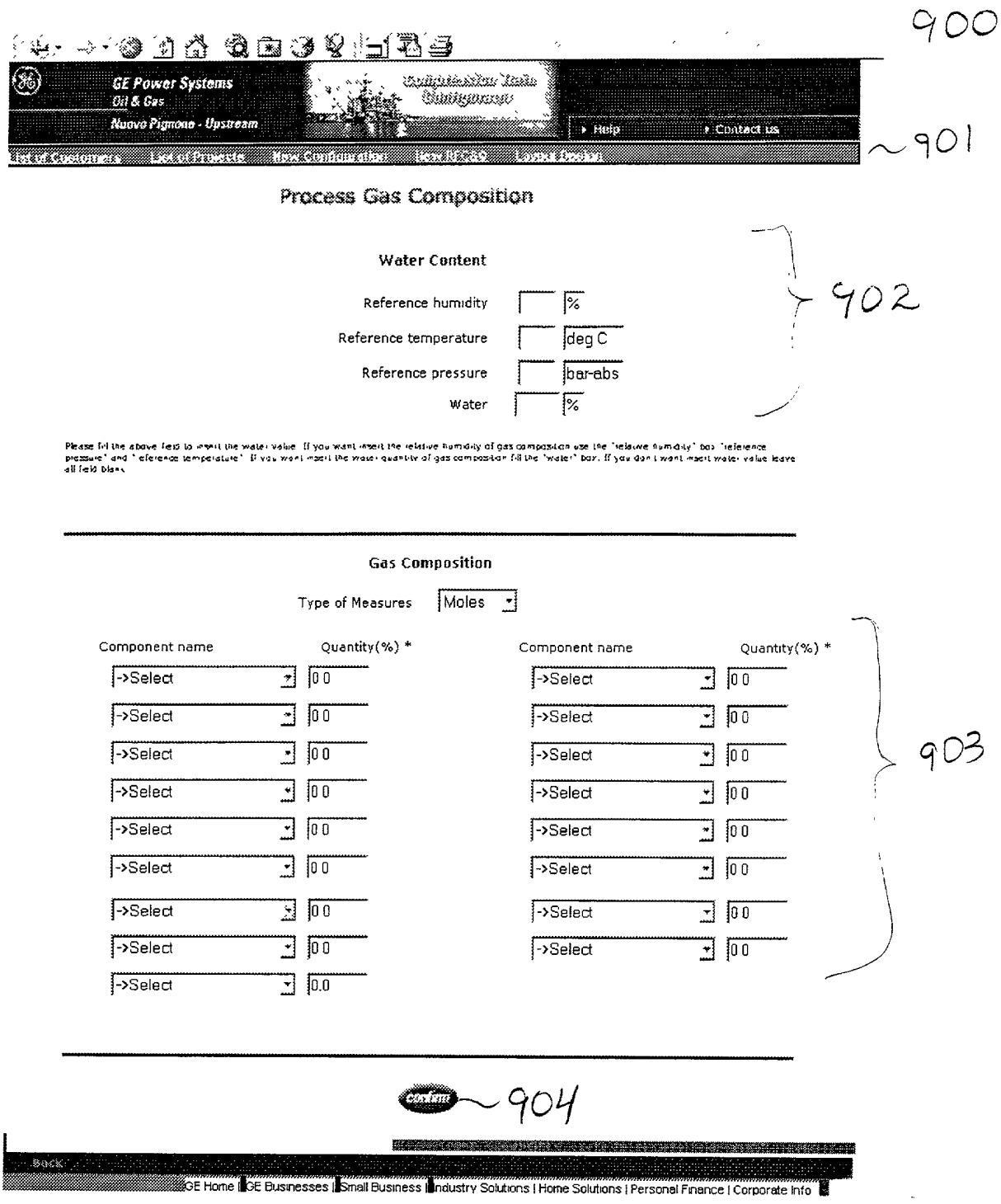
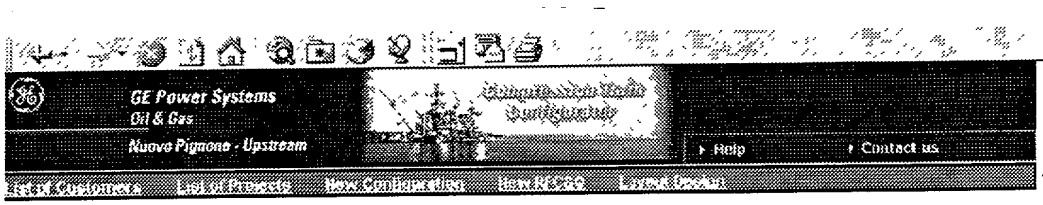

900
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
901
Process Gas Composition
Water Content
Reference humidity
%
Reference temperature
deg C
Reference pressure
bar-abs
Water
%
902
Please fill the above field to insert the water value. If you want insert the relative humidity of gas composition use the "relative humidity" box "reference pressure" and "reference temperature". If you want insert the water quantity of gas composition fill the "water" box. If you don't want insert water value leave all field blank.
Gas Composition
Type of Measures
Moles
Component name
Quantity(%) *
->Select
0.0
903
confirm
904
Back
GE Home | GE Businesses | Small Business | Industry Solutions | Home Solutions | Personal Finance | Corporate Info

fig 9



1000

1001

Configuration Results

PGT5 + GB + BCL801 } 1002

Discharge Pressure:	8.00	bar-abs
Discharge Temperature:	25.87	deg C
Number of Stages:	1	
Actual Discharge Flow:	34359.2	m3/h
Power Margin:	15.21	%
Absorbed Power at Driver Shaft:	1363.	kw

1003

Calculation results are preliminary and must be confirmed by Nuovo Pignone Technical Office

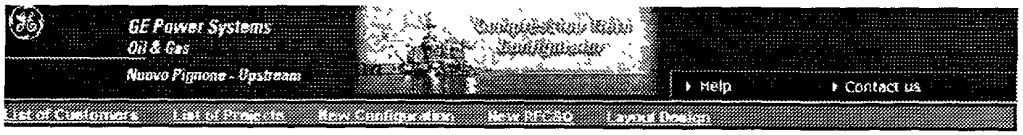
save 1006 modify 1007

More Data 1008

Layout Composition 1009

View List of Configurations

fig 10



1100

1101

More Data

Driver Data

Description	Overall	
Discharge Pressure:	8.00	bar-abs
Driver Model:	PGT5	
Actual Discharge Flow:	34359.2	m3/h
Absorbed Power at Driver Shaft:	1363.	kw
Power Margin:	15.21	%
Electrical Frequency:	50	hz

1103

Compression Data

Description	Stage 1	Stage 2	Stage 3	Stage 4	
Molecular Weight:	16.043				l/mole
Handled Flow: Mass Flow	50				kg/s
Suction Pressure:	7.00				bar-abs
Suction Temperature:	15.00				deg C
Suction Actual Flow:	37843.5				m3/h
Discharge Pressure:	8.00				bar_abs
Discharge Temperature:	25.87				deg C
Discharge Actual Flow:	34359.2				m3/h
Impeller Number:	1				
Speed:	4024.				rpm
Politropic Efficiency:	84.46				%

1104

	Model	Type	Size	Impeller Number:	Rating
Compressor Casing 1	BCL801	BCL	800	1	600
Compressor Casing 2					
Compressor Casing 3					

1105

back

1106

Back

fig 11

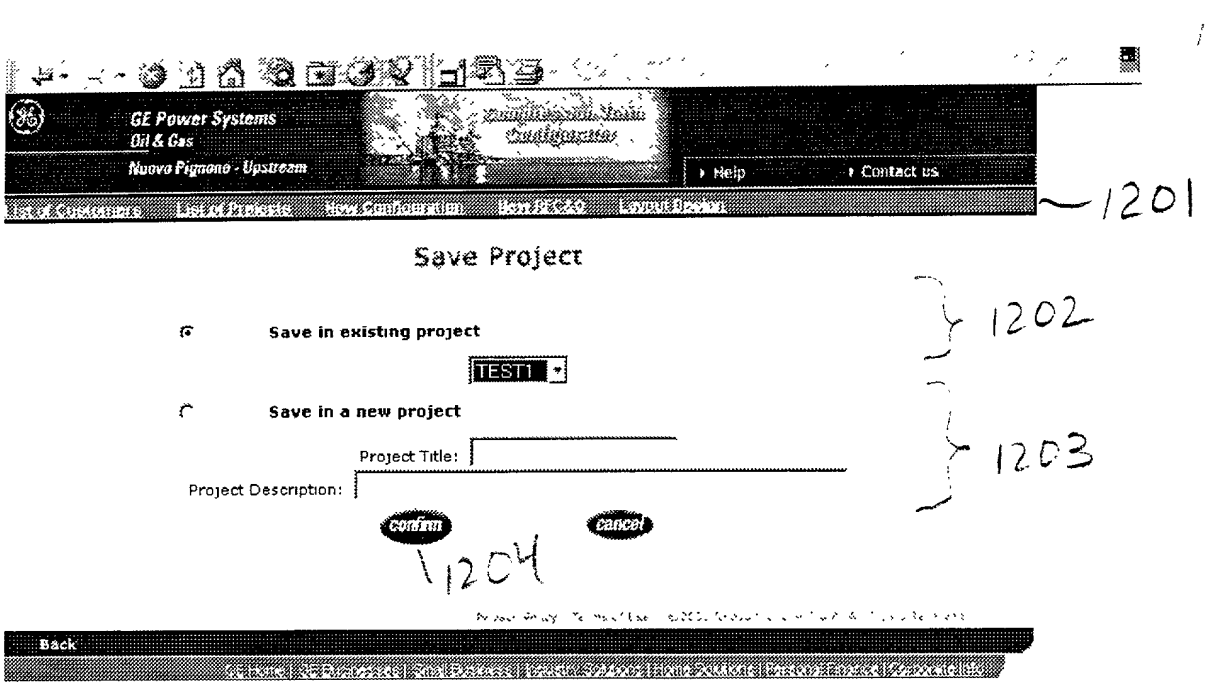
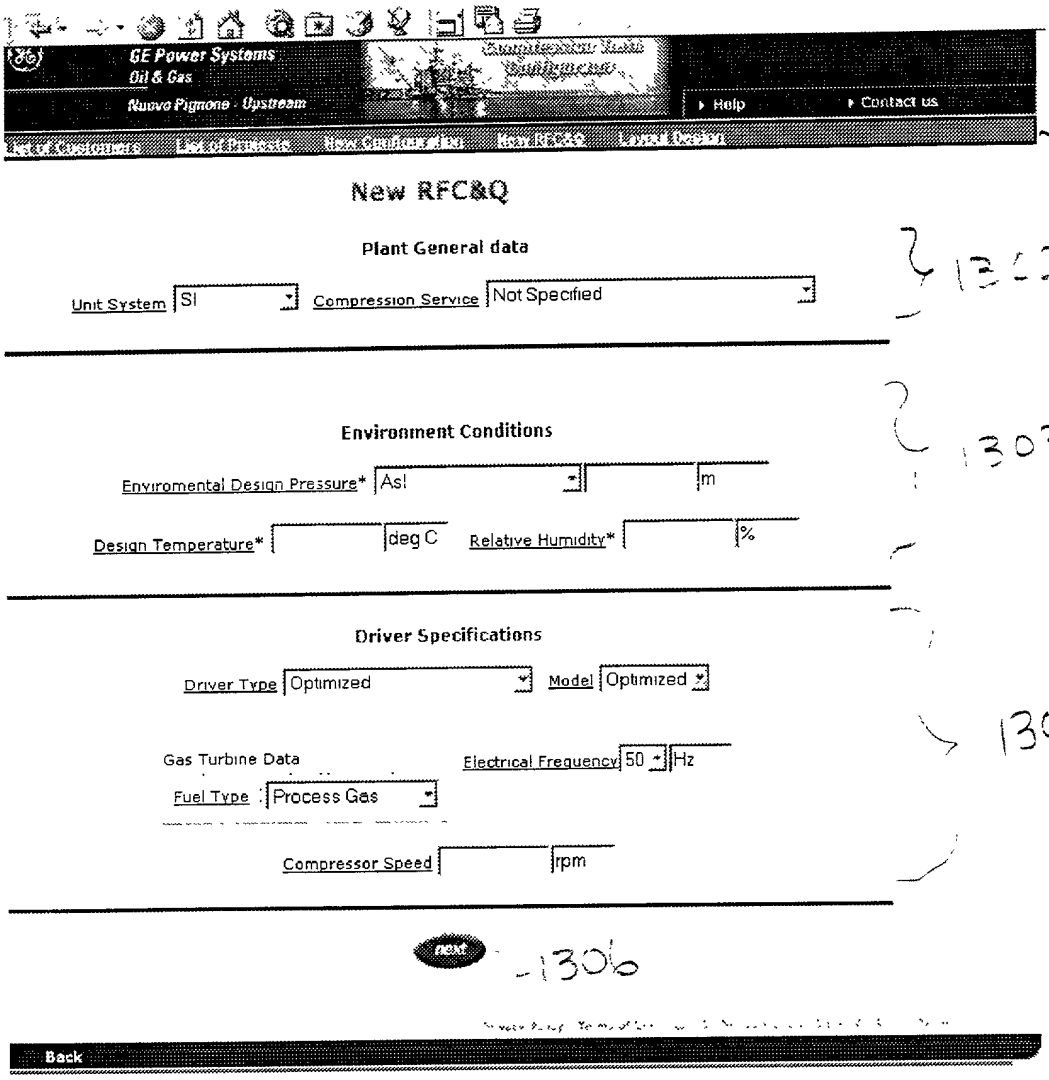

1200
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
1201
Save Project
Save in existing project
TEST1
1202
Save in a new project
Project Title:
Project Description:
1203
confirm
cancel
1204
Back

fig 12



1300

1301

1302

1303

1304

1306

fig 13

1400

1401

New RFC&Q

Compression Data

Gas State Equation: Optimized — Nace Application: Not

Stage Number: Optimized

	Stages					
	Optimized	1st	2nd	3rd	4th	
Handled Flow (Mass Flow)						kg/s
Suction Pressure *						bar-abs
Suction Temperature *						deg C
Discharge Pressure *						bar-abs

1402

Process Gas * All Stages

1403

Max Temperature * 170 deg C

Compressor Options

Casing Type

Horizontally Split	Not	
Back-To-Back	Yes	
Double Flow	Not	
Max Peripheral Speed of Impellers *	280	m/s

1404

Interstage Data

Gas Cooler Discharge Temperature * 55 deg C — Max Stage Suction Temperature * 120 deg C

Interstage Pressure Drop

Between 1° & 2° Stages *	25	%
Between 2° & 3° Stages *	25	%
Between 3° & 4° Stages *	25	%

1405

NEXT

1406

Back

fig 14

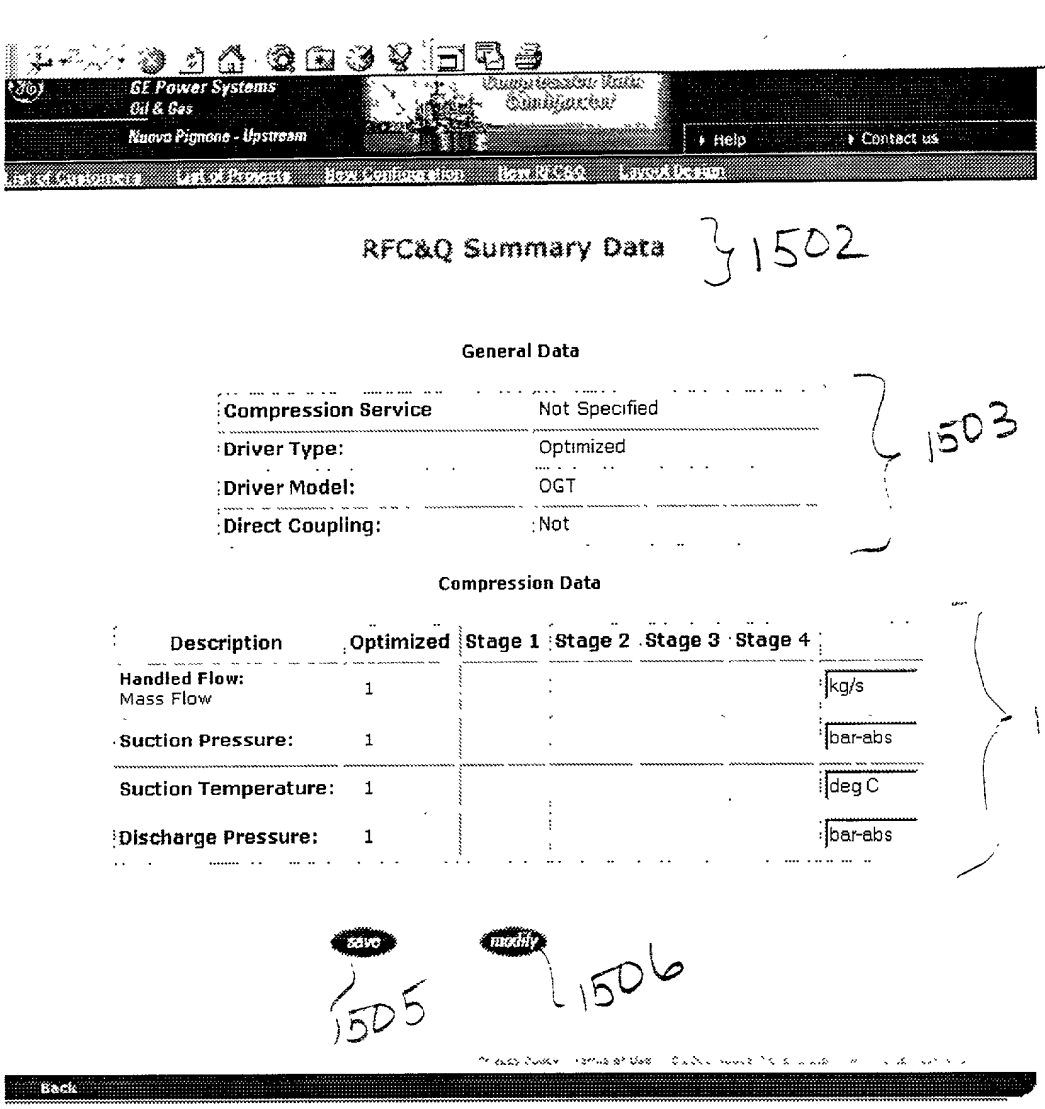
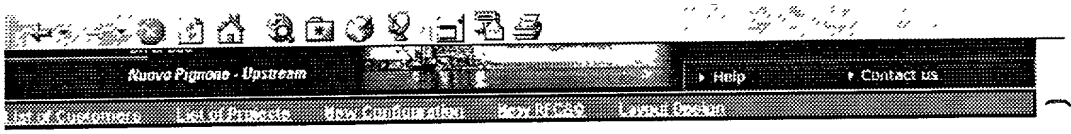

1500
GE Power Systems
Oil & Gas
Nuova Pignone - Upstream
Help
Contact us
1501
RFC&Q Summary Data
1502
General Data
Compression Service
Not Specified
Driver Type:
Optimized
Driver Model:
OGT
Direct Coupling:
Not
1503
Compression Data
Description
Optimized
Stage 1
Stage 2
Stage 3
Stage 4
Handled Flow:
Mass Flow
1
kg/s
Suction Pressure:
1
bar-abs
Suction Temperature:
1
deg C
Discharge Pressure:
1
bar-abs
1504
save
modify
1505
1506
Back

fig 15



1600

~1601

RFC&Q Summary Data

Project Title: TEST1
RFC&Q Name: gra

} 1602

General Data

Compression Service	Not Specified
Driver Type:	Optimized
Driver Model:	OGT
Direct Coupling:	Not

} 1603

Compression Data

Description	Optimized	Stage 1	Stage 2	Stage 3	Stage 4	
Handled Flow: Mass Flow	1					kg/s
Suction Pressure:	1					bar-abs
Suction Temperature:	1					deg C
Discharge Pressure:	1					bar-abs

} 1604

modify 1605

~1606 RFQ

~1607 List Of Verifications

~1608 View List of RFC&Q

fig 16

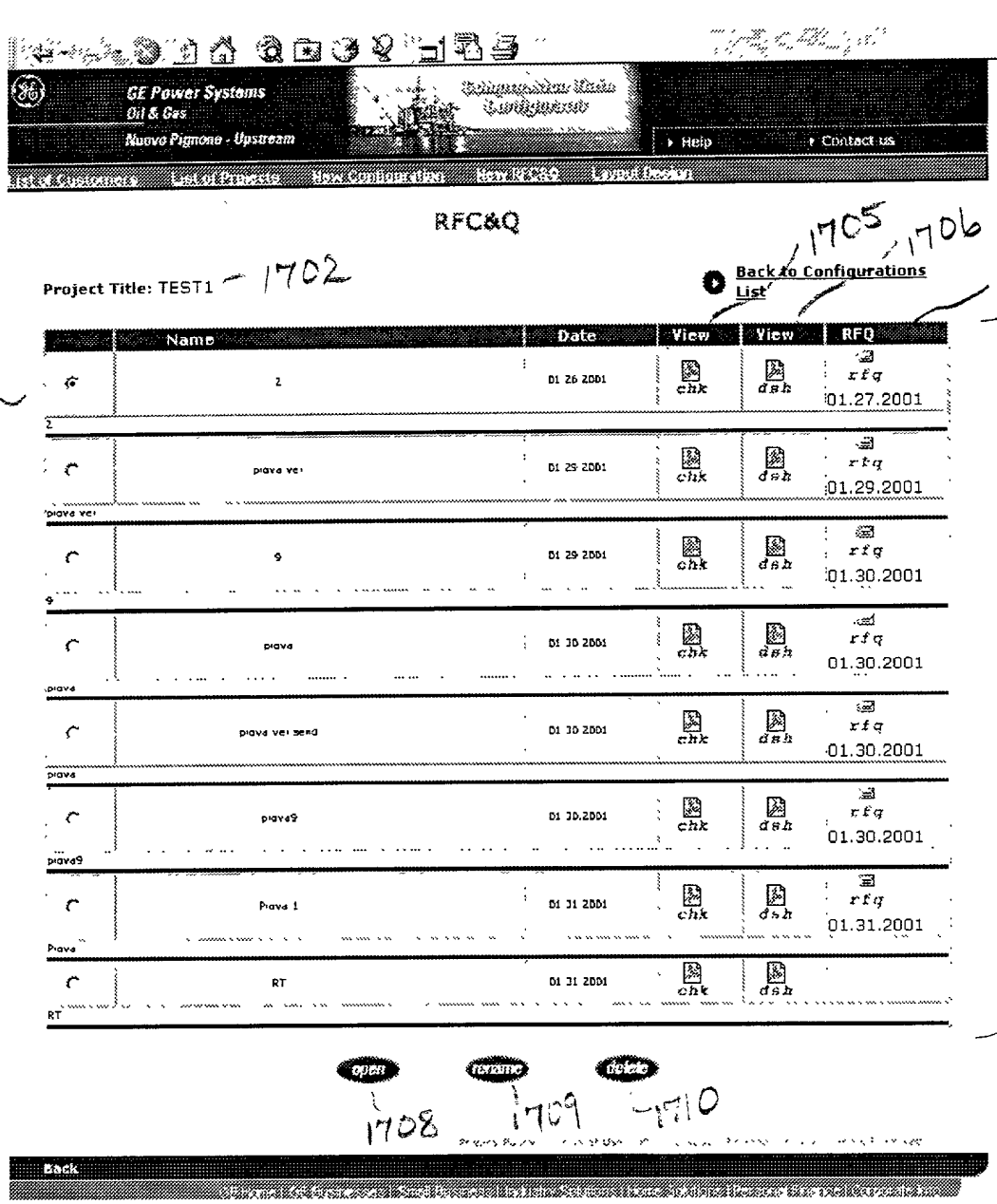
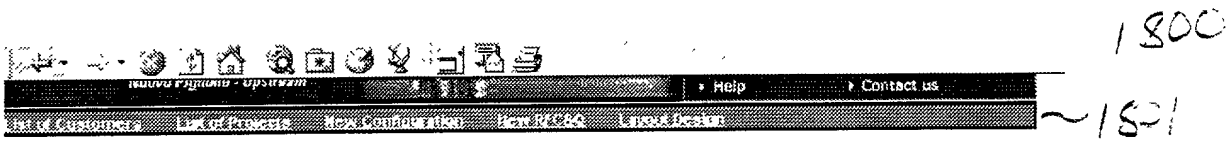

1700
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
1701
RFC&Q
1705
1706
1707
Project Title: TEST1
1702
Back to Configurations List
Name
Date
View
View
RFQ
1704
1703
2
01 26 2001
chk
dsh
rfq
01.27.2001
prova ver
01 29 2001
chk
dsh
rfq
01.29.2001
9
01 29 2001
chk
dsh
rfq
01.30.2001
prova
01 30 2001
chk
dsh
rfq
01.30.2001
prova ver send
01 30 2001
chk
dsh
rfq
01.30.2001
prova9
01 30.2001
chk
dsh
rfq
01.30.2001
Prova 1
01 31 2001
chk
dsh
rfq
01.31.2001
RT
01 31 2001
chk
dsh
open
rename
delete
1708
1709
1710
Back

fig 17



1800

1801

RFC&Q Summary Data

Project Title: TEST1
RFC&Q Name: gra

1802

General Data

Compression Service	Not Specified
Driver Type:	Optimized
Driver Model:	OGT
Direct Coupling:	Not

1803

Compression Data

Description	Optimized	Stage 1	Stage 2	Stage 3	Stage 4	
Handled Flow: Mass Flow	1					kg/s
Suction Pressure:	1					bar-abs
Suction Temperature:	1					deg C
Discharge Pressure:	1					bar-abs

1804

modify

1805

1806 RFQ

1807 List Of Verifications

1808 View List of RFC&Q

Fig 18

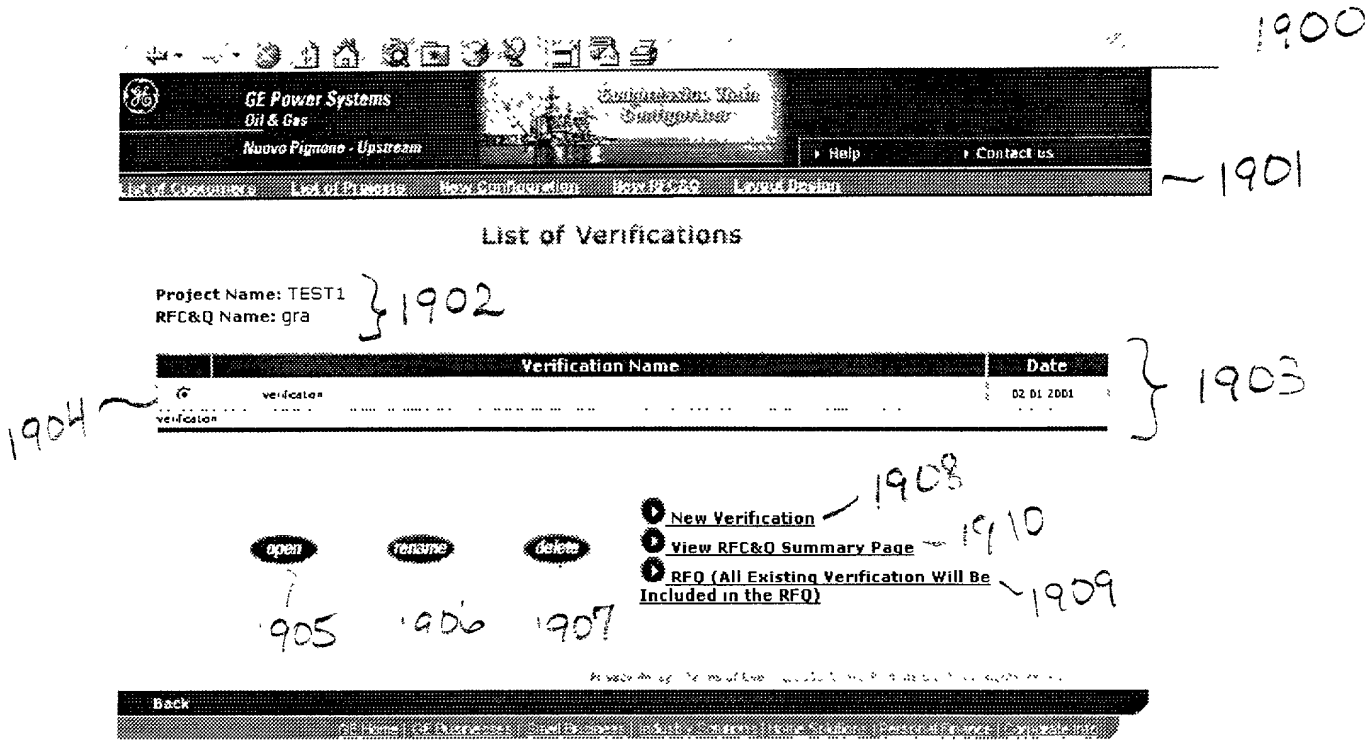

1900
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
1901
List of Verifications
Project Name: TEST1
RFC&Q Name: gra
1902
Verification Name
Date
1903
1904
verification
02 01 2001
verification
1908
New Verification
View RFC&Q Summary Page
1910
RFQ (All Existing Verification Will Be Included in the RFQ)
1909
open
rename
delete
1905
1906
1907
Back

Fig 19

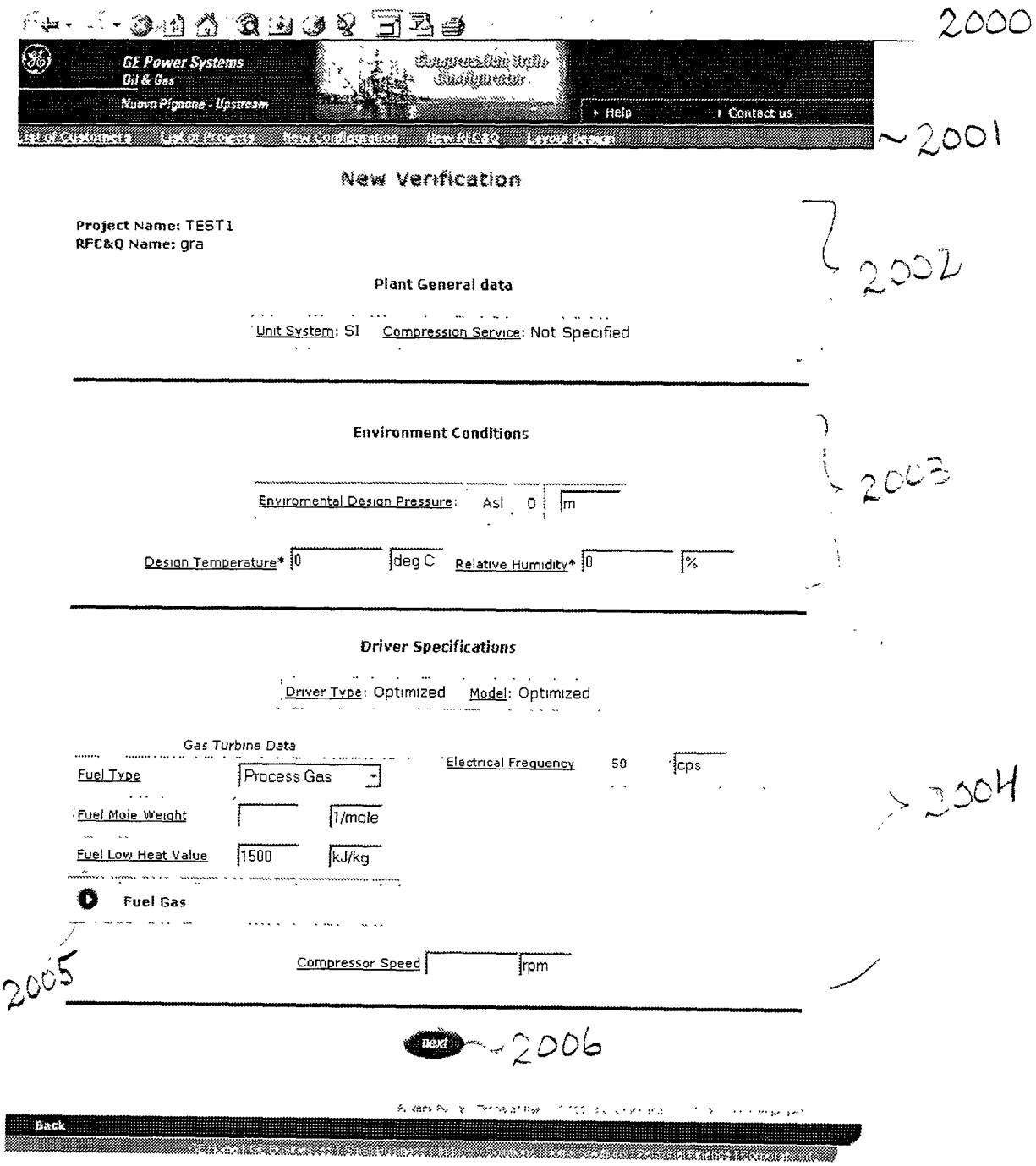
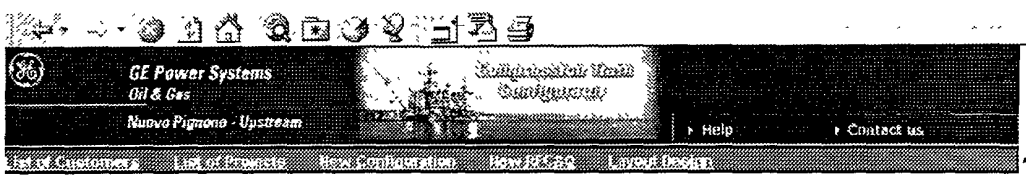

2000
GE Power Systems
Oil & Gas
Nuova Pignone - Upstream
Help
Contact us
~2001
New Verification
Project Name: TEST1
RFC&Q Name: gra
2002
Plant General data
Unit System: SI
Compression Service: Not Specified
Environment Conditions
2003
Enviromental Design Pressure: Asl 0 m
Design Temperature* 0 deg C
Relative Humidity* 0 %
Driver Specifications
Driver Type: Optimized
Model: Optimized
Gas Turbine Data
Fuel Type Process Gas
Electrical Frequency 50 cps
2004
Fuel Mole Weight 1/mole
Fuel Low Heat Value 1500 kJ/kg
Fuel Gas
2005
Compressor Speed rpm
next
2006
Back

Fig 20



2100

2101

New RFC&Q

Project Name: TEST1
RFC&Q Name: gra

2102

Compression Data

Gas State Equation: Optimized

Nace Application: Not

Stage Number: Optimized

2103

Stages

		Optimized	1st	2nd	3rd	4th	
Handled Flow:	Mass Flow	1		35			kg/s
Suction Pressure *		1		60			bar-abs
Suction Temperature *		1		55			deg C
Discharge Pressure *		1		100			bar-abs

Process Gas * All Stages

Max Temperature: 170 deg C

2104

Compressor Options

2105

Casing Type

Horizontally Split:	Not	
Back-To-Back	Yes	
Double Flow	Not	
Max Peripheral Speed of Impellers	280	m/s

Interstage Data

2106

Gas Cooler Discharge Temperature* 55 deg C

Max Stage Suction Temperature 120 deg C

Interstage Pressure Drop

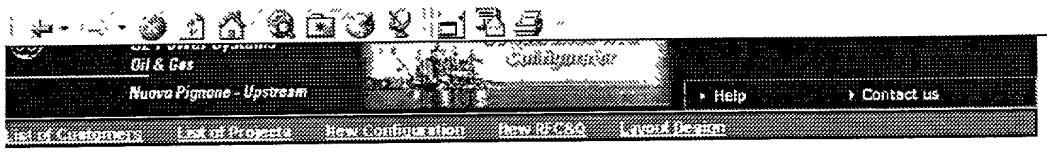
Between 1° & 2° Stages	2.5	%
Between 2° & 3° Stages	2.5	%
Between 3° & 4° Stages	2.5	%

next

2107

FIG 2!

Back



2200

~2201

Verification Summary Data

Project Title: TEST1
RFC&Q Name: gra

} 2202

General Data

Compression Service	Not Specified
Driver Type:	Optimized
Driver Model:	OGT
Direct Coupling:	Not

~2203

Compression Data

Description	Optimized	Stage 1	Stage 2	Stage 3	Stage 4	
Handled Flow: Mass Flow	1		35			kg/s
Suction Pressure:	1		60			bar-abs
Suction Temperature:	1		55			deg C
Discharge Pressure:	1		100			bar-abs

~2204

save reading View RFC&Q Summary Page

2205 220- 2207

Fig 22

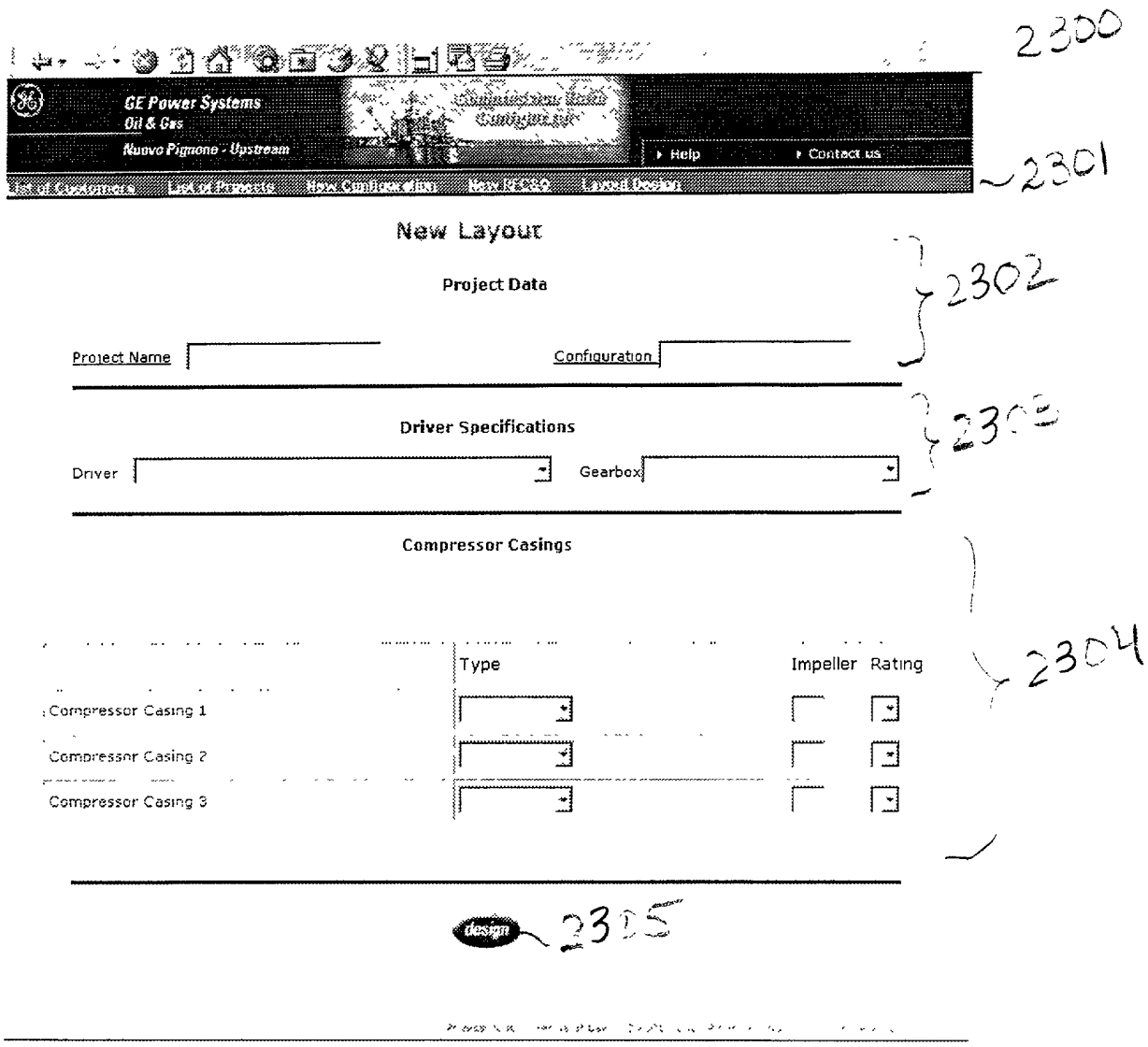

2300
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
2301
New Layout
Project Data
2302
Project Name
Configuration
Driver Specifications
Driver
Gearbox
Compressor Casings
Type
Impeller
Rating
2304
Compressor Casing 1
Compressor Casing 2
Compressor Casing 3
design
2305

Fig 23

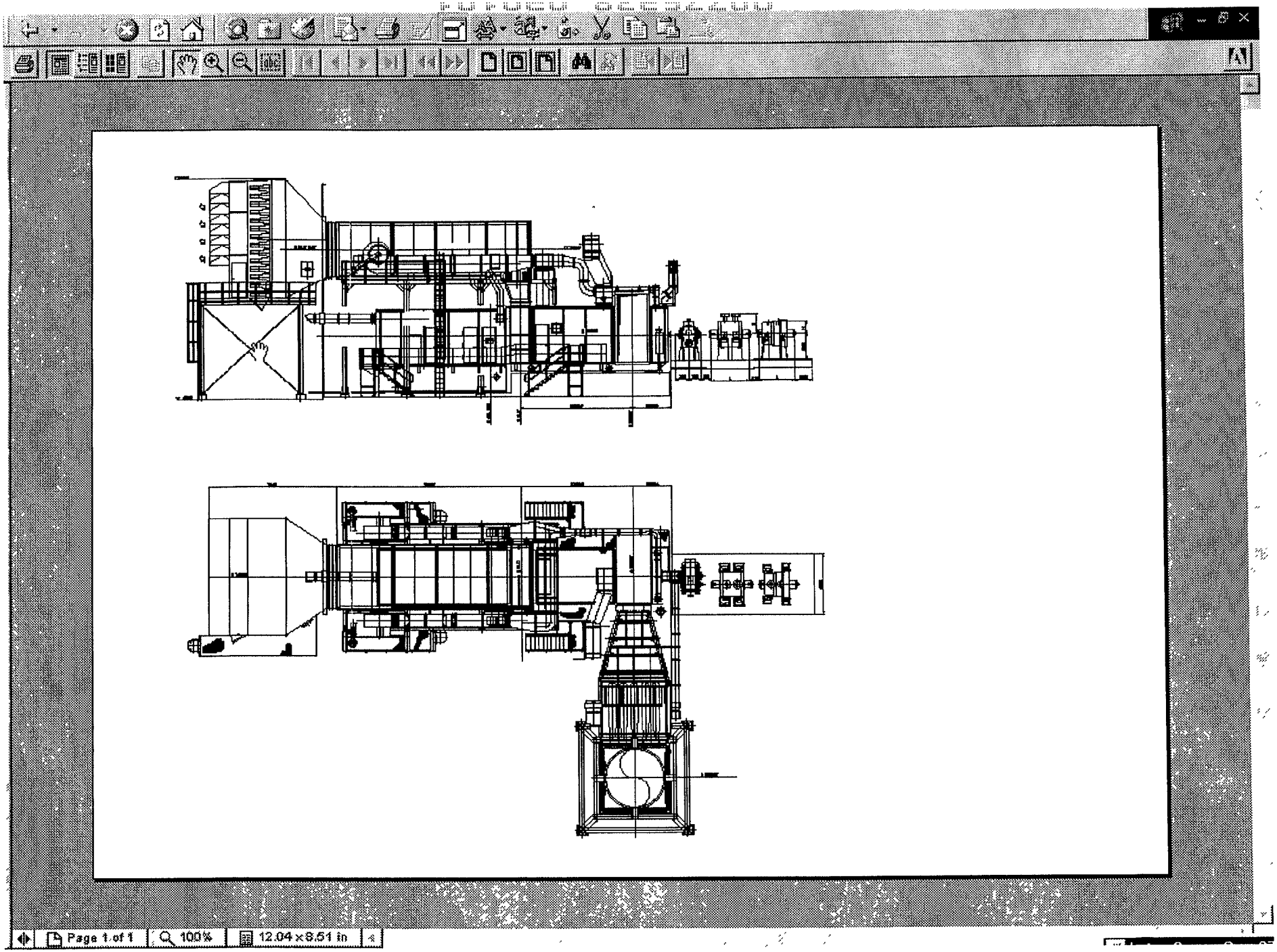


FIG. 24

Compressor Checklist

Final User :

Country: GEPS List **State:** GEPS List

Number of Trains to be quoted (each handling 100% of the flow indicated in datasheets) 1

Unit Location Indoor

Date Required for Response

1. Delivery (According to Incoterms 1990)

- (•) Ex-Works
- ( ) F.C.A.
- ( ) F.A.S.
- ( ) F.O.B.
- ( ) C&F
- ( ) C.I.F
- ( ) D.D.U.

Port of Shipment:
Port of Destination:
Place of Shipment:

2. Type of Installation On-Shore

3. Forcasted year of installation

4. Compression Train Baseplate

- (•) Multipoint Baseplate
- ( ) Three-Points Single Lift Baseplate

5. Gas Turbine Combustion System

- (•) STD Combustor
- ( ) DLE
- ( ) Water Injection
- ( ) Steam Injection

6. Turbine Inlet System

- (•) Included
- ( ) Not Included

7. Turbine Exhaust System

- (•) Included
- ( ) Not Included

8. Battery & Battery Charger System

- ( ) Included
- (•) Not Included

9. Compressor Seals

- (•) Dry Gas
- ( ) Oil

10. Antisurge Controls, Instrumentation & Valves

- ( ) Included
- (•) Not Included

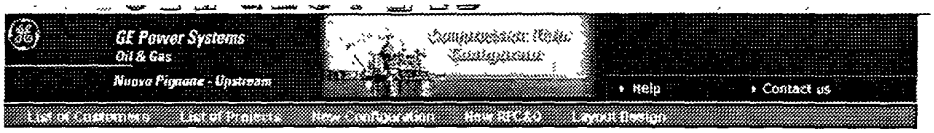
11. Test

- [ ] Full Load/Speed/Pressure String Test
- [ ] ASME PTC10 Class 1 String Test
- [ ] ASME PTC10 Class 3 Performance Test for Compressor
- [ ] No Load/Full Speed/Pressure String Test
- [ ] STD Gas Turbine No Load Mechanical Running Test

12. Date Required for Response (mm.dd.yyyy)

Confirm

FIG. 25



Electric Motor Checklist

Final User :

Country: GEPS List **State:** GEPS List

Number of Trains to be quoted (each handling 100% of the flow indicated in datasheets) 1

Unit Location Indoor

Date Required for Response

1. Delivery (According to Incoterms 1990)

- Ex-Works
- F.C.A
- F.A.S.
- F.O.B.
- C&F
- C.I.F.
- D.D.U.

Port of Shipment:
Port of Destination:
Place of Shipment:

2. Type of Installation On-Shore

3. Forcasted year of installation

4. Compression Train Baseplate

- Separate Multipoint Baseplate for Driver and Compressor
- Common Multipoints Baseplate

5. Gas Turbine Combustion System

- STD Combustor
- DLE
- Water Injection
- Steam Injection

6. Turbine Inlet System

- Included
- Not Included

7. Turbine Exhaust System

- Included
- Not Included

8. Battery & Battery Charger System

- Included
- Not Included

9. Compressor Seals

- Dry Gas
- Oil

10. Antisurge Controls, Instrumentation & Valves

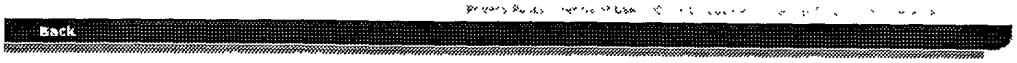
- Included
- Not Included

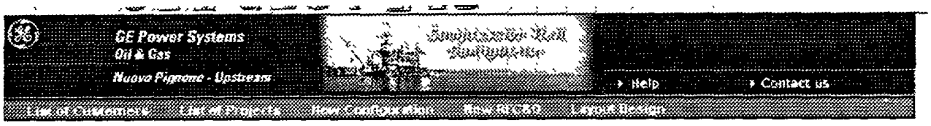
11. Test

- Full Load/Speed/Pressure String Test
- ASME PTC10 Class 1 String Test
- ASME PTC10 Class 3 Performance Test for Compressor
- No Load/Full Speed/Pressure String Test
- STD Gas Turbine No Load Mechanical Running Test

12. Date Required for Response (mm.dd.yyyy)

FIG. 26





Turbocompessor Checklist

Final User :

Country: GEPS List **State:** GEPS List

Number of Trains to be quoted (each handling 100% of the flow indicated in datasheets) 1

Unit Location

Date Required for Response

1. Delivery (According to Incoterms 1990)

- (•) Ex-Works ( ) F.C.A.
- ( ) F.A.S. ( ) F.O.B. Port of Shipment:
- ( ) C&F ( ) C.I.F Port of Destination:
- ( ) D.D.U. Place of Shipment.

2. Type of Installation On-Shore

3. Forcasted year of installation

4. Compression Train Baseplate

- (•) Separate Multipoint Baseplate for Driver and Compressor
- ( ) Common Multipoints Baseplate

5. Gas Turbine Combustion System

- (•) STD Combustor ( ) DLE
- ( ) Water Injection ( ) Steam Injection

6. Turbine Inlet System

- (•) Included ( ) Not Included

7. Turbine Exhaust System

- (•) Included ( ) Not Included

8. Battery & Battery Charger System

- ( ) Included (•) Not Included

9. Compressor Seals

- (•) Dry Gas ( ) Oil

10. Antisurge Controls, Instrumentation & Valves

- ( ) Included (•) Not Included

11. Test

- [ ] Full Load/Speed/Pressure String Test
- [ ] ASME PTC10 Class 1 String Test
- [ ] ASME PTC10 Class 3 Performance Test for Compressor
- [ ] No Load/Full Speed/Pressure String Test
- [ ] STD Gas Turbine No Load Mechanical Running Test

12. Date Required for Response (mm.dd.yyyy)

confirm

FIG. 27

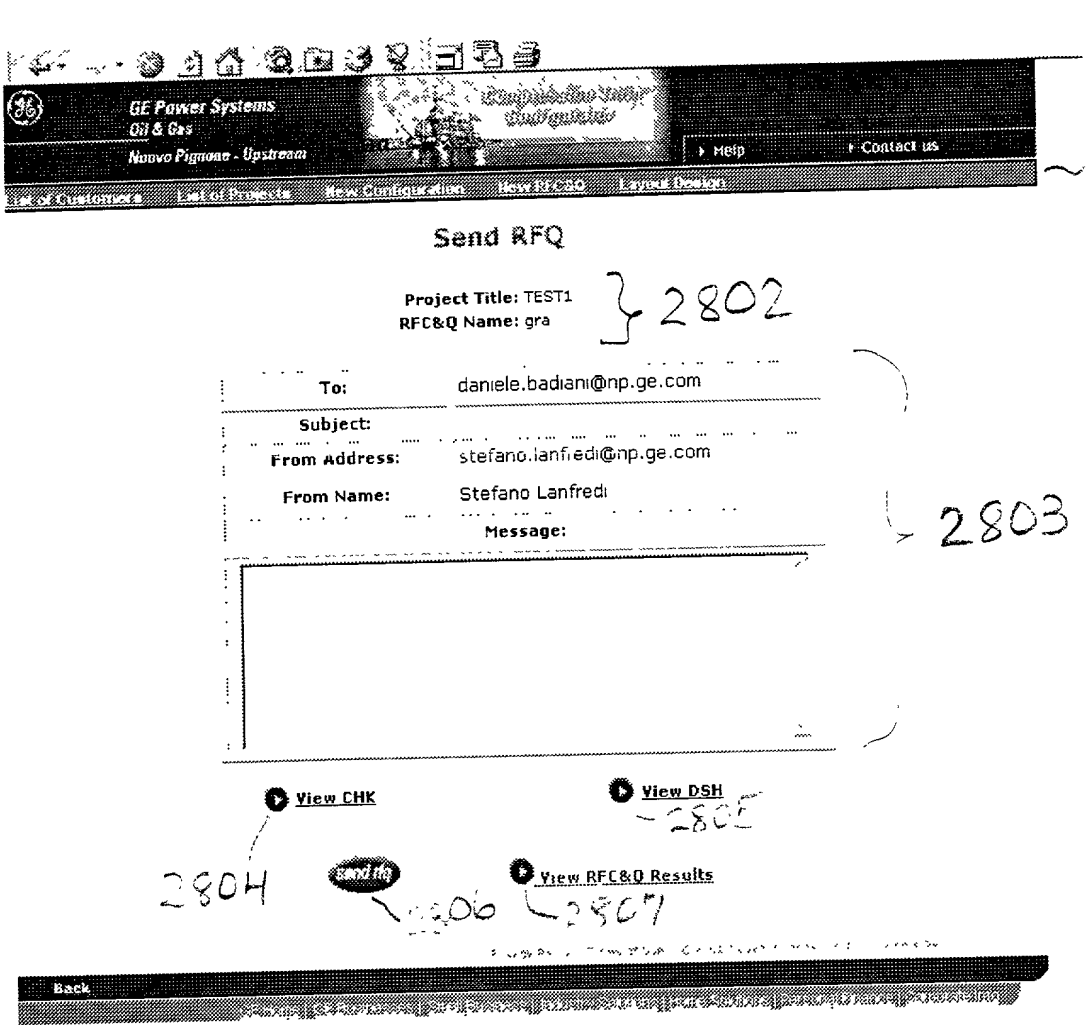

2800
GE Power Systems
Oil & Gas
Nuovo Pignone - Upstream
Help
Contact us
2801
Send RFQ
Project Title: TEST1
RFC&Q Name: gra
2802
To: daniele.badiani@np.ge.com
Subject:
From Address: stefano.lanfredi@np.ge.com
From Name: Stefano Lanfredi
Message:
2803
View CHK
View DSH
2805
2804
2806
View RFC&Q Results
2807
Back

Fig 28

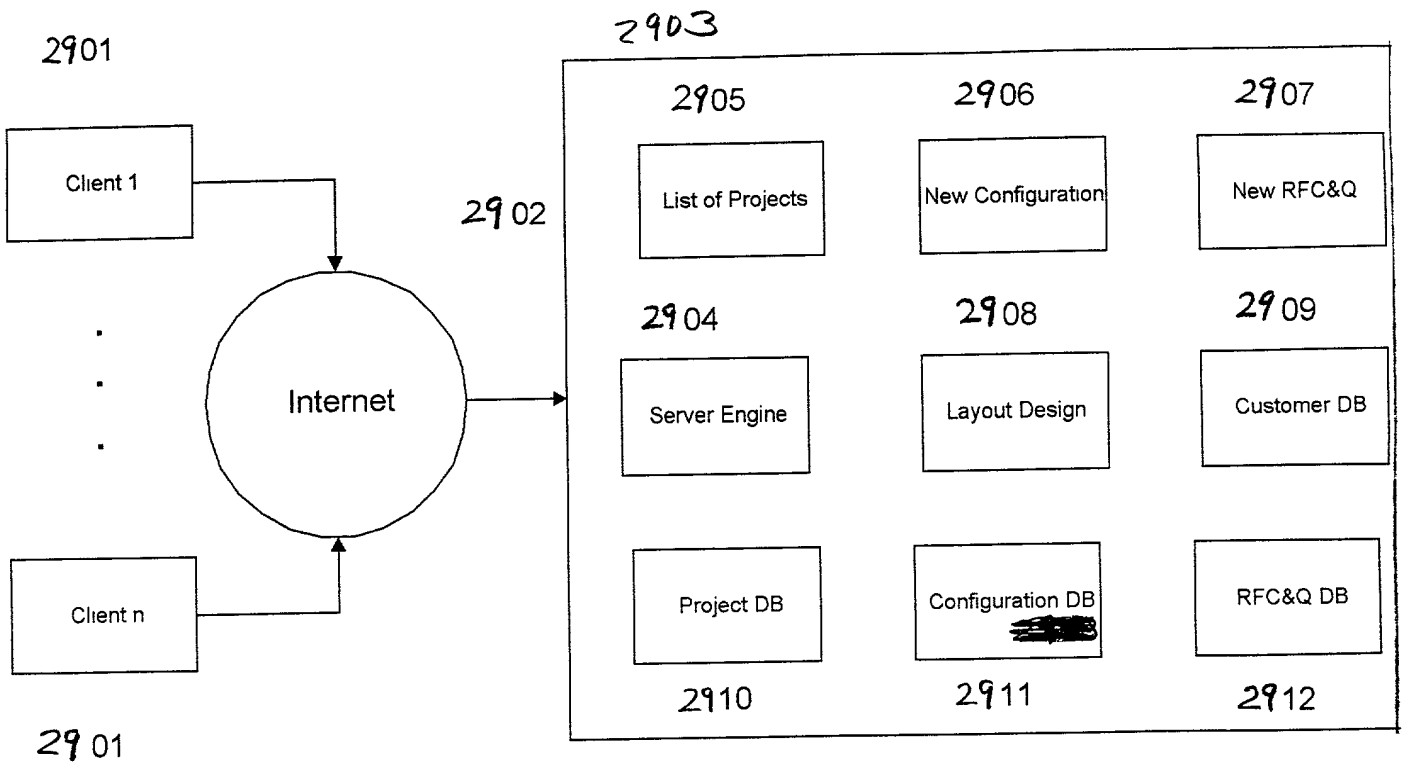

2901
2903
2905
2906
2907
Client 1
2902
List of Projects
New Configuration
New RFC&Q
2904
2908
2909
Internet
Server Engine
Layout Design
Customer DB
Client n
Project DB
Configuration DB
RFC&Q DB
2910
2911
2912
2901

Fig 29

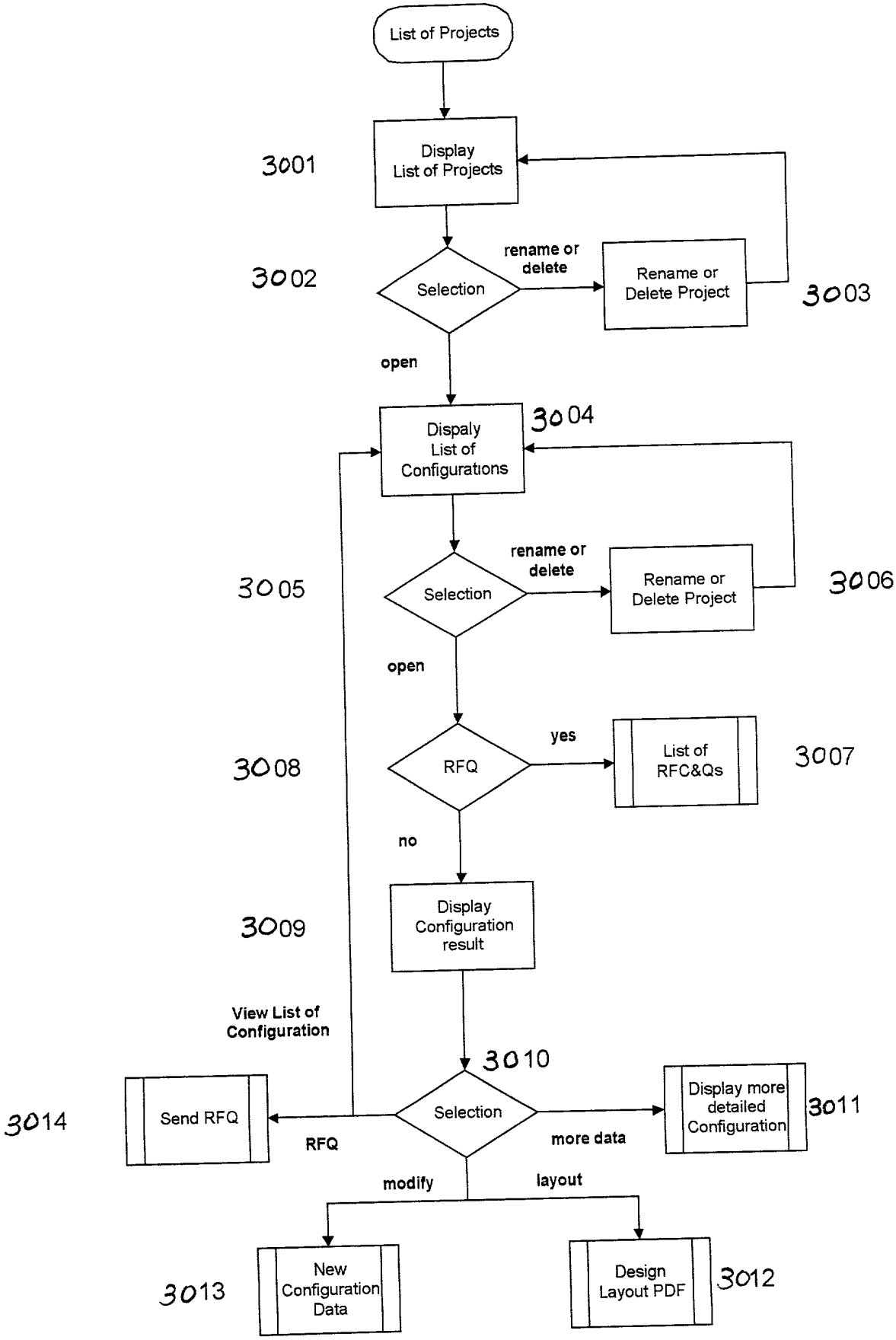

List of Projects
Display List of Projects
3001
Selection
rename or delete
Rename or Delete Project
3002
3003
open
Dispaly List of Configurations
3004
Selection
rename or delete
Rename or Delete Project
3005
3006
open
RFQ
yes
List of RFC&Qs
3008
3007
no
Display Configuration result
3009
View List of Configuration
3010
Send RFQ
Selection
Display more detailed Configuration
3014
3011
RFQ
more data
modify
layout
New Configuration Data
Design Layout PDF
3013
3012

Fig 30

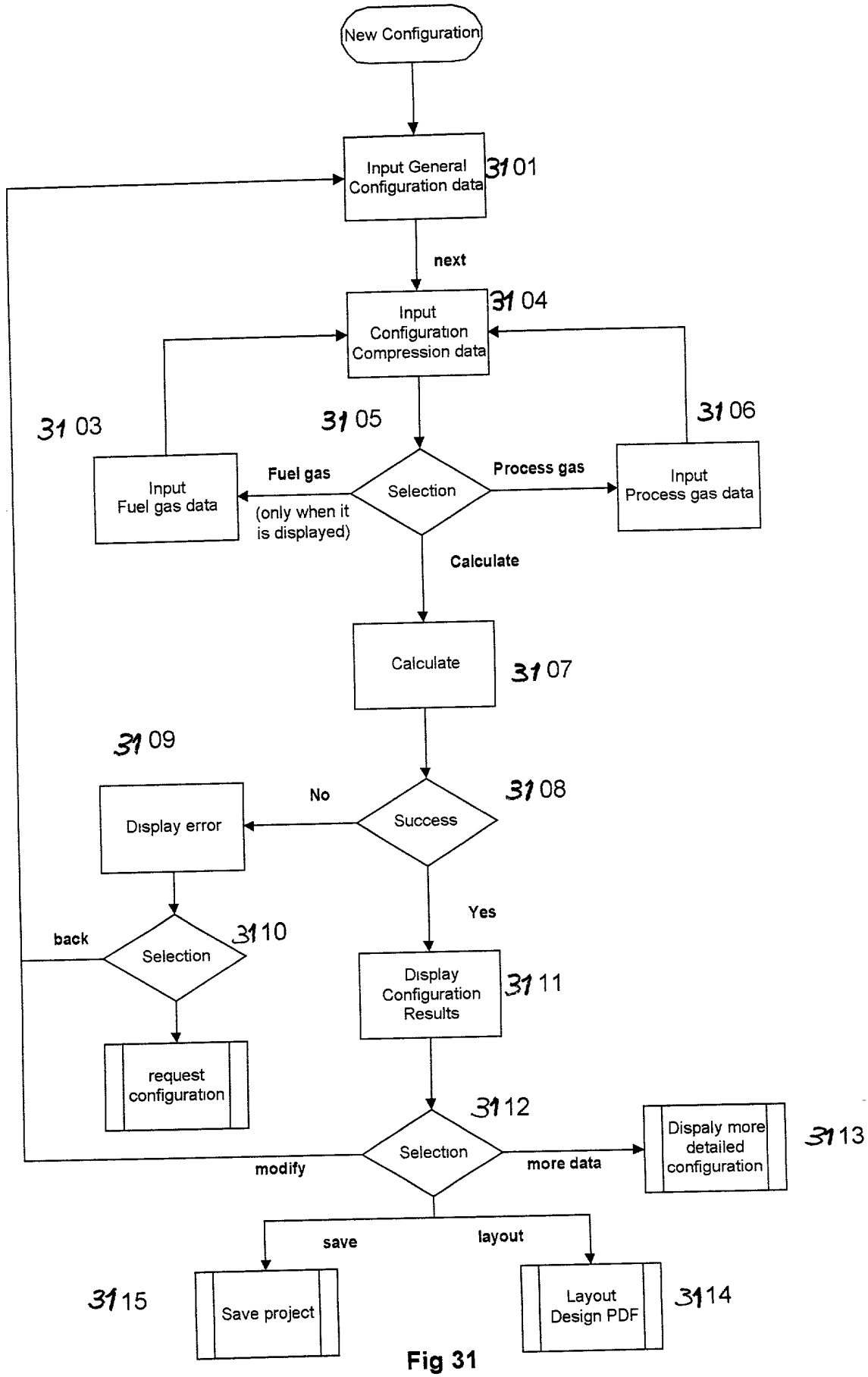

New Configuration
Input General Configuration data
3101
next
Input Configuration Compression data
3104
3103
3105
3106
Input Fuel gas data
Fuel gas
(only when it is displayed)
Selection
Process gas
Input Process gas data
Calculate
Calculate
3107
3109
Display error
No
Success
3108
back
Selection
3110
Yes
Display Configuration Results
3111
request configuration
3112
Selection
modify
more data
Dispaly more detailed configuration
3113
save
layout
3115
Save project
Layout Design PDF
3114

Fig 31

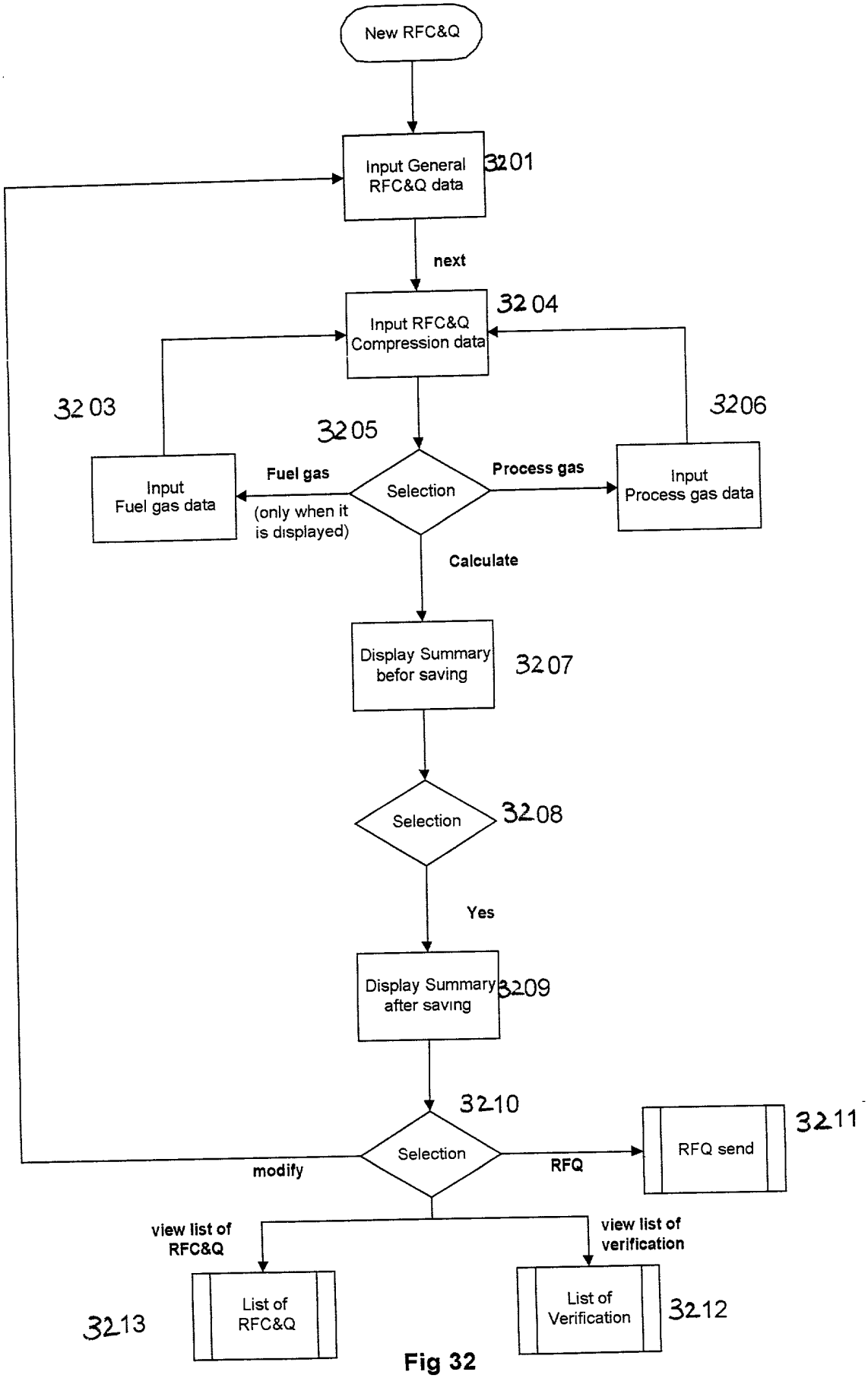

New RFC&Q
Input General RFC&Q data
3201
next
Input RFC&Q Compression data
3204
3203
3205
3206
Input Fuel gas data
Fuel gas
(only when it is displayed)
Selection
Process gas
Input Process gas data
Calculate
Display Summary befor saving
3207
Selection
3208
Yes
Display Summary after saving
3209
3210
Selection
modify
RFQ
RFQ send
3211
view list of RFC&Q
view list of verification
List of RFC&Q
3213
List of Verification
3212

Fig 32

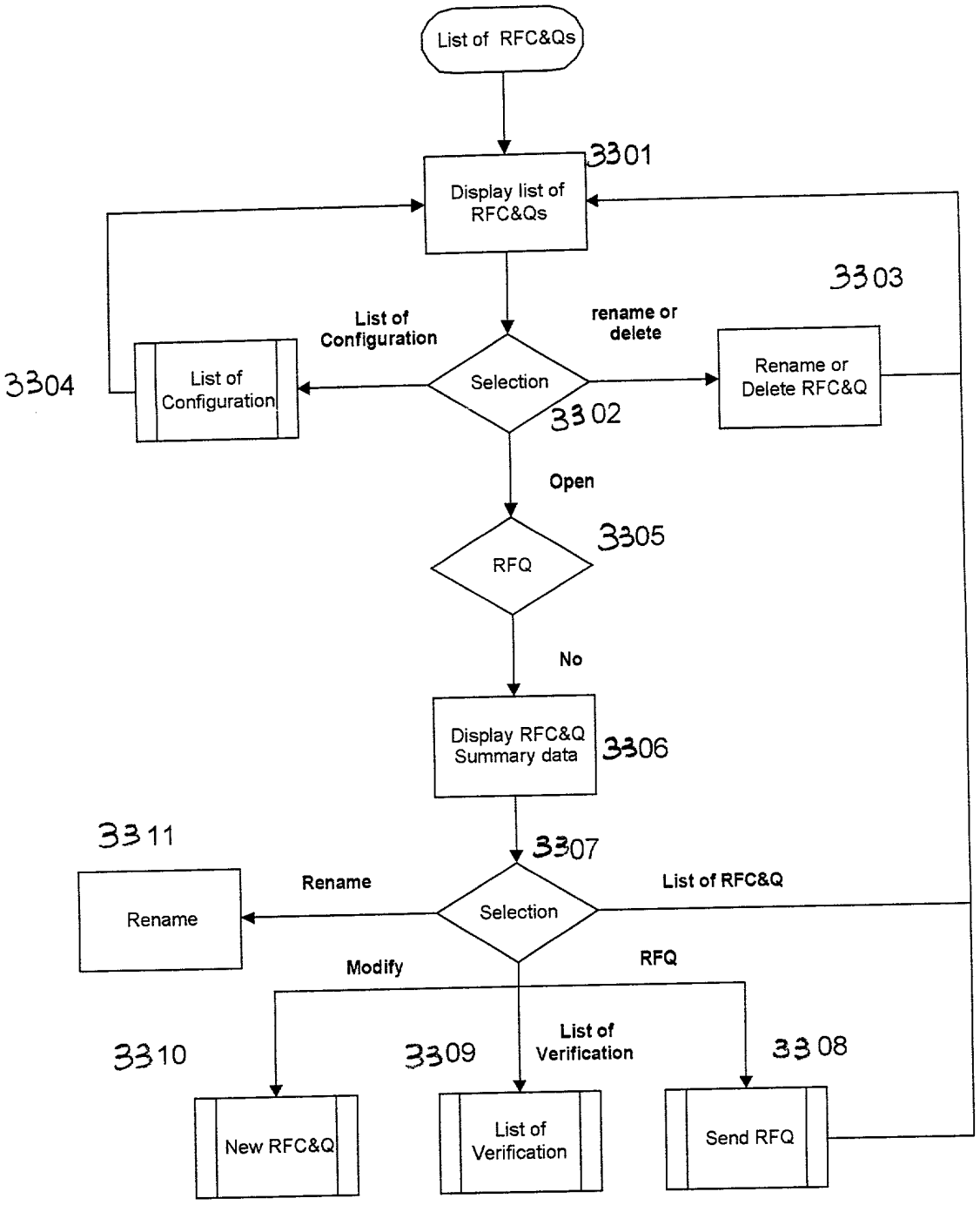

List of RFC&Qs
3301
Display list of RFC&Qs
3303
List of Configuration
rename or delete
3304
List of Configuration
Selection
Rename or Delete RFC&Q
3302
Open
RFQ
3305
No
Display RFC&Q Summary data
3306
3311
3307
Rename
Rename
Selection
List of RFC&Q
Modify
RFQ
3310
3309
List of Verification
3308
New RFC&Q
List of Verification
Send RFQ

Fig 33

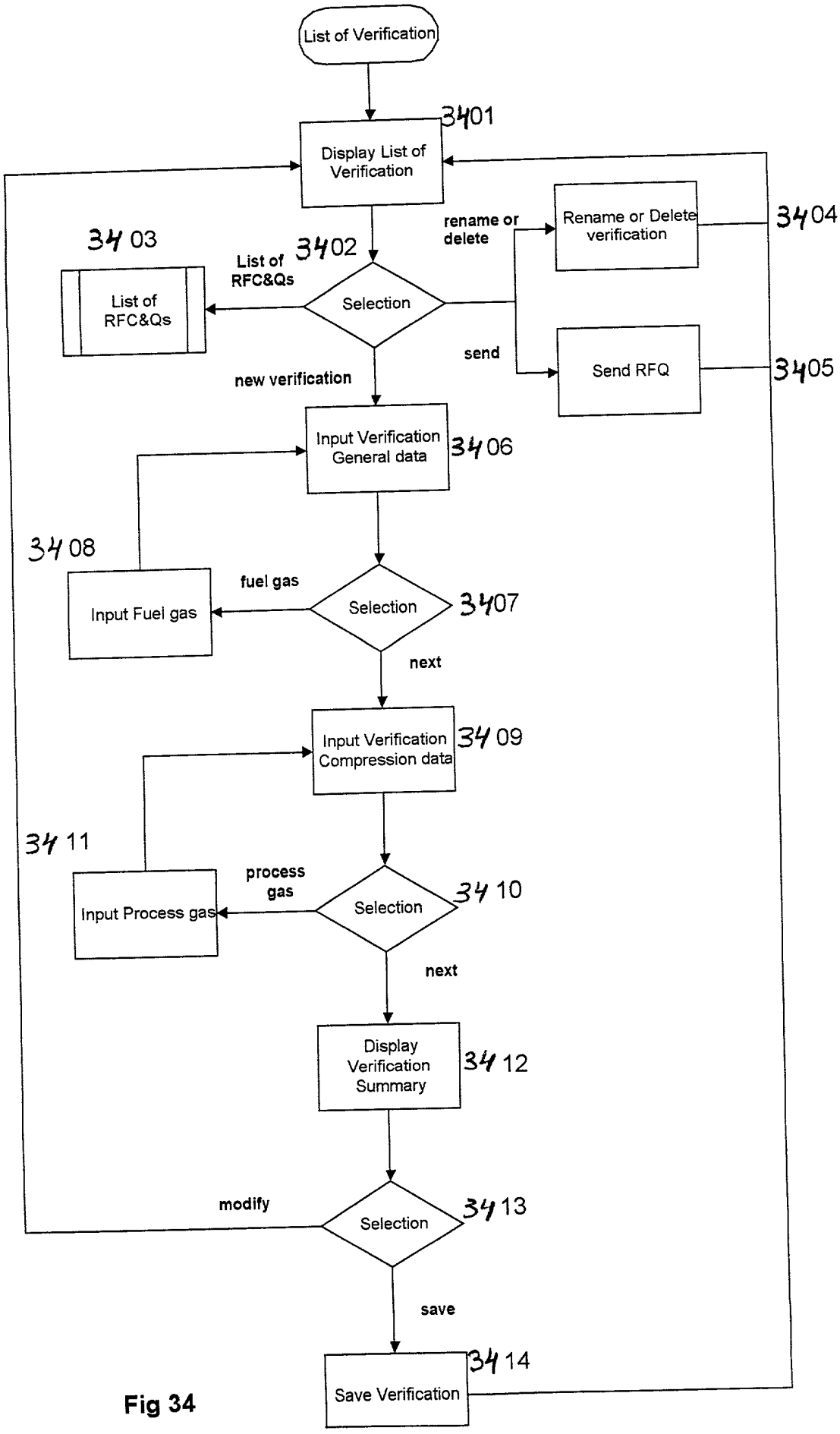

List of Verification
3401
Display List of Verification
rename or delete
Rename or Delete verification
3404
3403
List of RFC&Qs
3402
List of RFC&Qs
Selection
send
Send RFQ
3405
new verification
Input Verification General data
3406
3408
fuel gas
Input Fuel gas
Selection
3407
next
Input Verification Compression data
3409
3411
process gas
Input Process gas
Selection
3410
next
Display Verification Summary
3412
modify
Selection
3413
save
Save Verification
3414

Fig 34

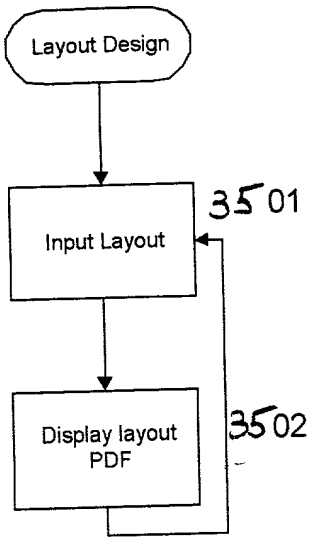


Fig 35